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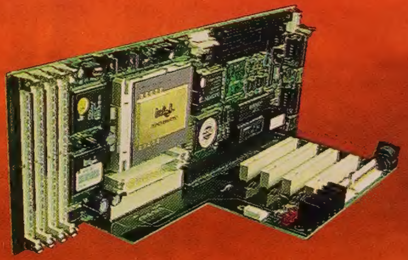

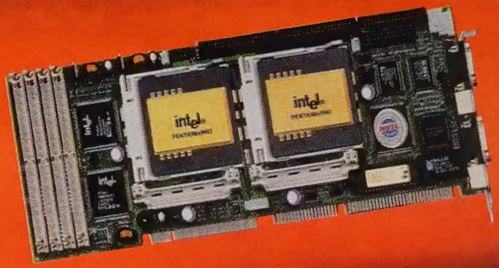

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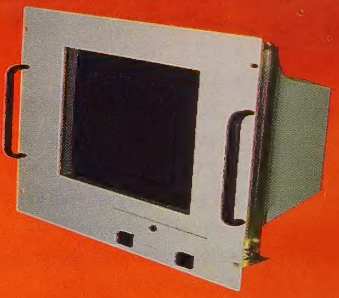

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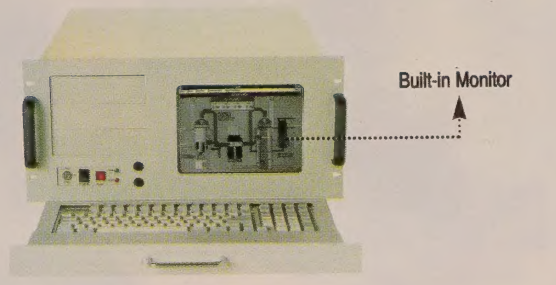

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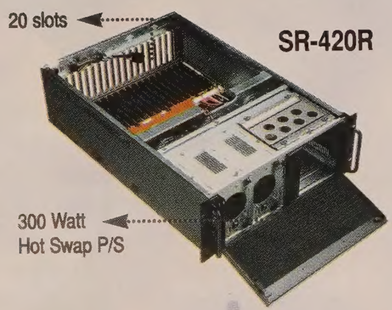

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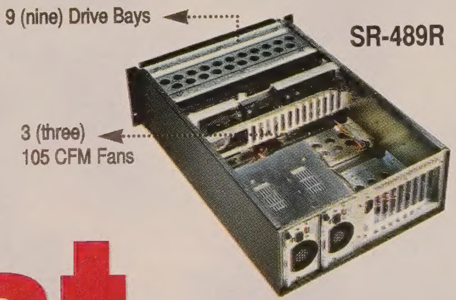

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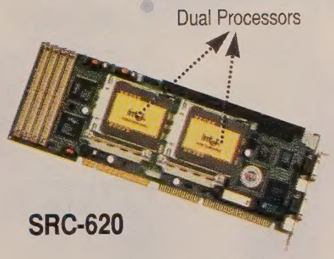

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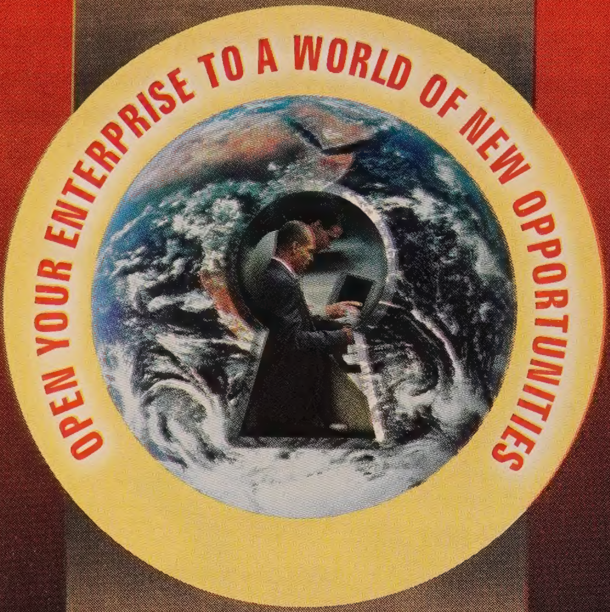
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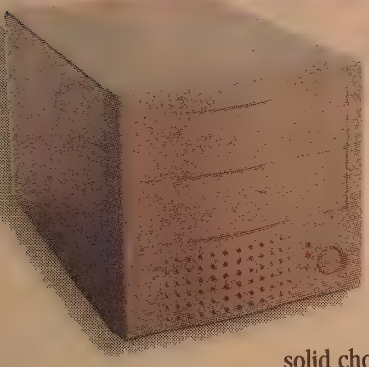

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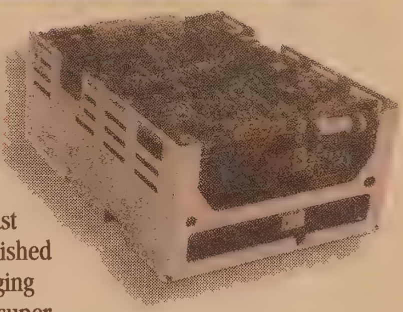

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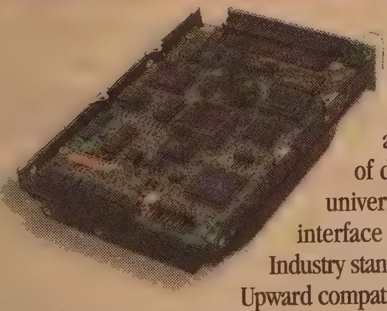

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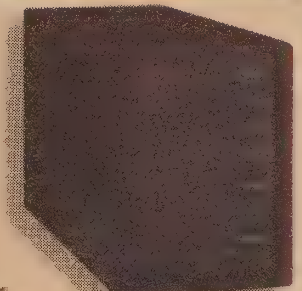

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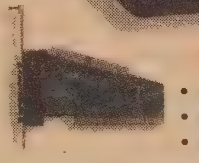

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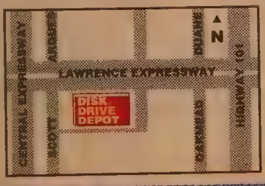

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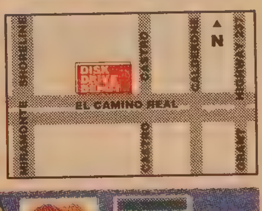

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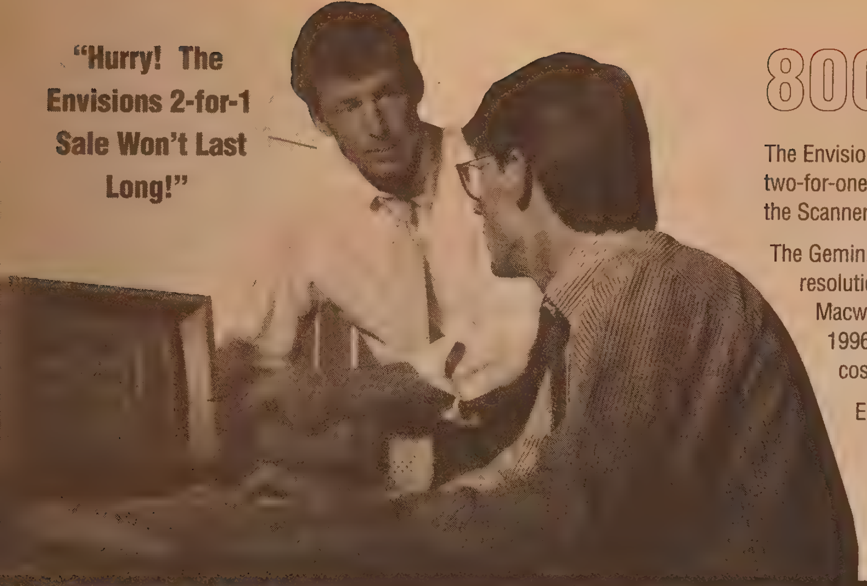
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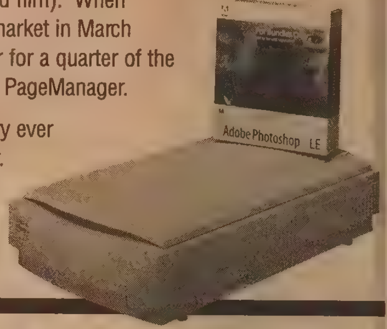

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For those who put ease of installation at the top of the list, Umax has the perfect solution. The new Astra 300P is a great color flatbed that plugs into your PC's parallel port, so you don't need to install an interface card or learn anything about SCSI in order to set it up.

In fact, the Astra 300P can be installed in under three minutes. It's so simple, it even takes up less desk space — it's just 16" x 12" x 3". The Astra 300P also weighs in at just 8 lbs., so it's light enough for anyone to take on the road.

The Astra 300P comes as a complete scanning system, including Adobe PhotoDeluxe for scanning, editing, and printing photos; Wordlinx OCR for converting text; and drivers for Windows 3.1 & Windows 95.

Umax Astra 300P Complete Scanning System (Reg. $249)	**$178**
Umax Astra 300P System with Adobe Photoshop 4.0	**$499**

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Fast SCSI scanning & legal-size bed

The Umax Astra 600S is the only scanner in its price range with 30-bit color and a full legal-sized scanning bed. The Astra 600S uses the same high-quality optics that have made Umax the 1997 Editors' Choice at both *PC Magazine* and *Macworld.*

With the 600S, you'll be able to add graphics to everything you produce on your PC. You can scan color photographs at 300dpi and add them to ads, brochures, and catalogs, or use them to spice up your web site.

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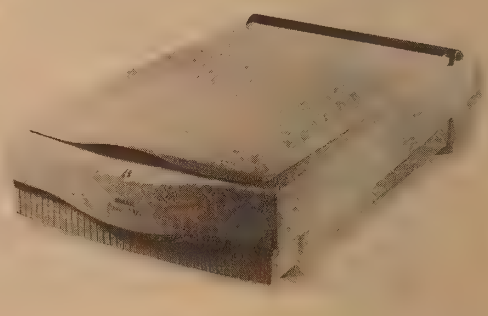

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PC Magazine says "Business and personal users need an easy-to-use device that will handle both document scanning and color scanning at an affordable price. For those users we recommend our Editors' Choice, the UMAX Vista-S12 ($500 street). The combination of value and performance delivered by the 24-bit, 600-dpi Vista was unparalleled in this roundup."

Now the S12 has been upgraded to the Astra 1200S, with the same great color quality *plus* a legal-size bed and a true 30-bit scanning process. These features make it an even better value at the same price!

The Astra 1200S comes with the same great software bundles as the other Astra scanners, and includes Windows 3.1, Windows 95, Windows NT & Mac drivers; and a SCSI-2 adapter card and cable.

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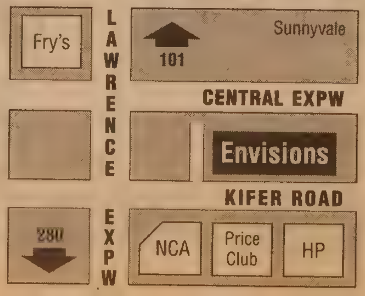
Some software is on CD-ROM with online manuals; disks & printed manuals available separately. Photos for illustration only. Two-for-one sale on Gemini D16 only, special price void if either unit returned. Clearance units may be factory-serviced. Returns must be authorized by Envisions, and must be in as-new condition. Products & prices subject to change. © 1997 Envisions Solutions Technology, Inc. All rights reserved and trademarks acknowledged.



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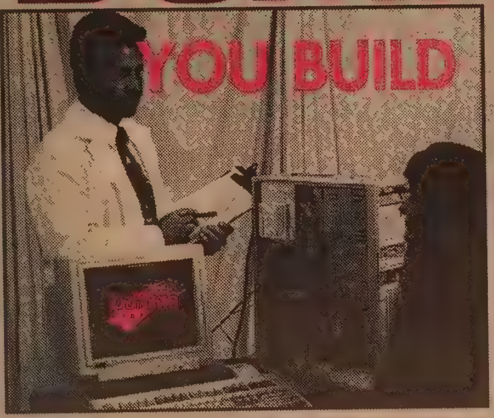

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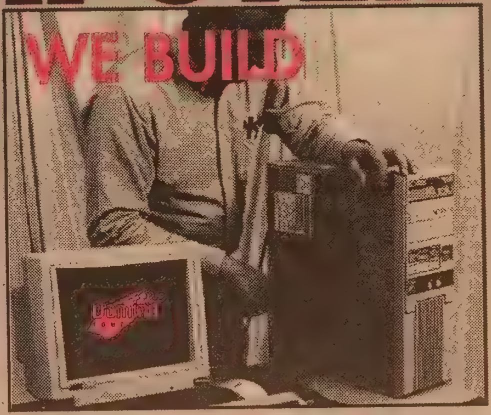

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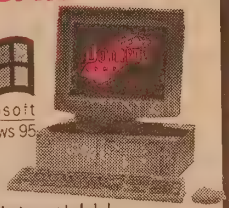

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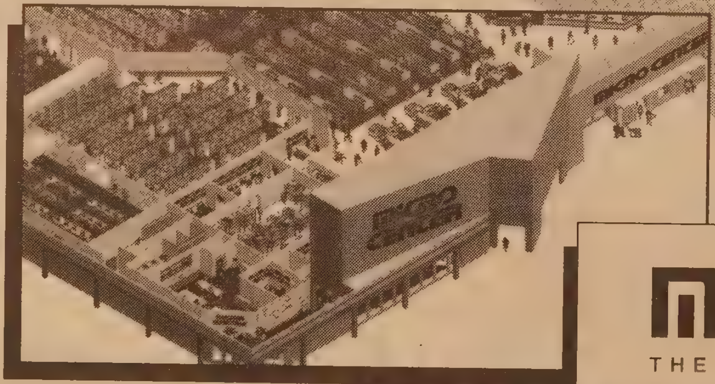

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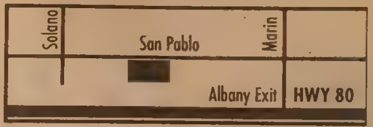

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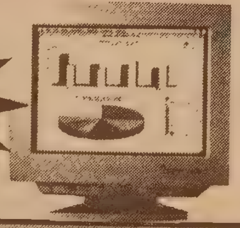

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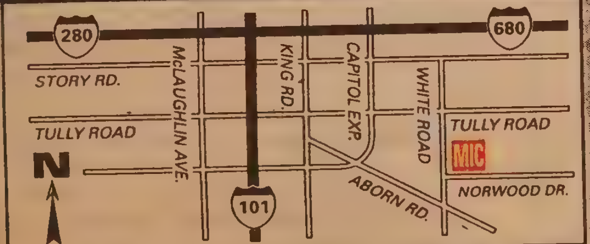

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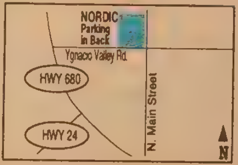

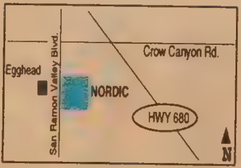

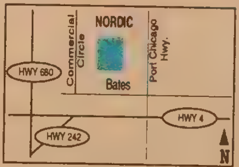

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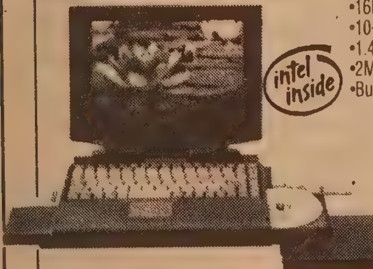

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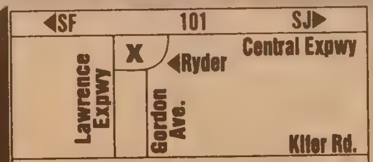

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Warren is one of the named plaintiffs in the constitutional challenge against the Communications Decency Act, that was overturned in June, 1997, by the U.S. Supreme Court.

He founded InfoWorld, was founding host of PBS' *Computer Chronicles*, founding editor of *Dr. Dobb's Journal* and served half a decade on the Board of Directors of Autodesk, Inc.

He has received the Hugh M. Hefner First Amendment Award (1994), James Madison Freedom-of-Information Award from the Society of Professional Journalists—Northern California (1994), the Electronic Frontier Foundation Pioneer Award (1992, its first year) and the John Dvorak Lifetime Achievement Award (1995).

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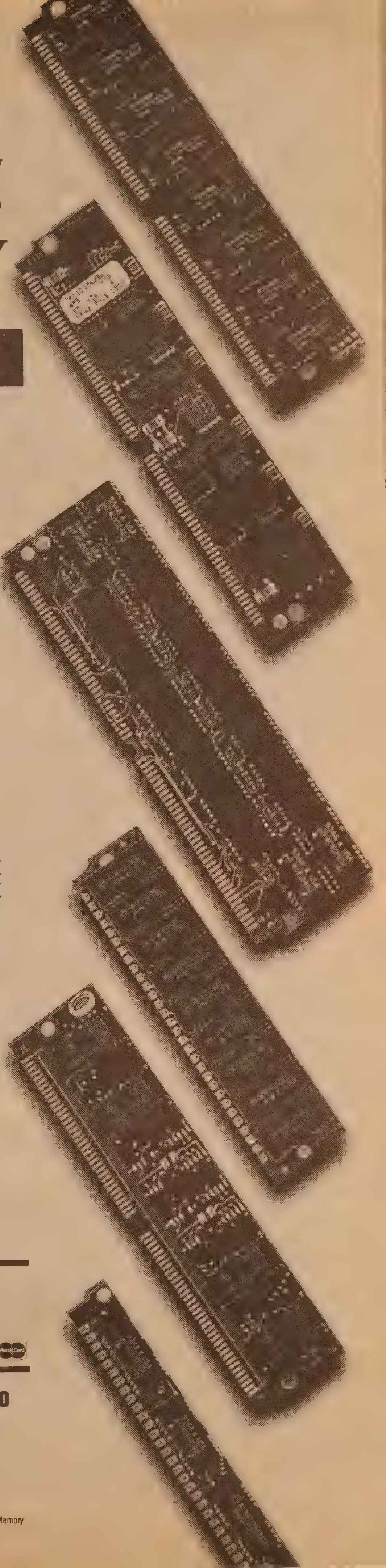

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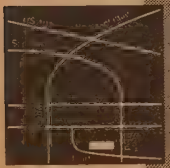

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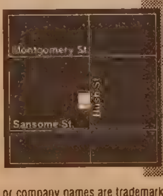

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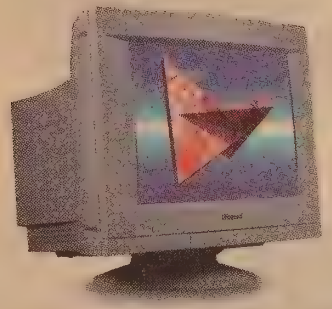

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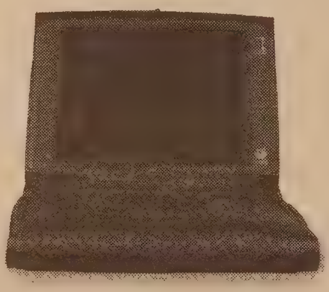

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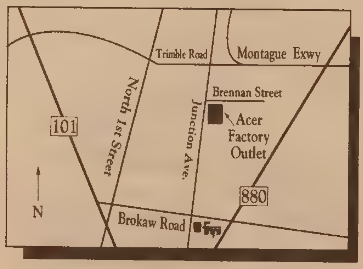

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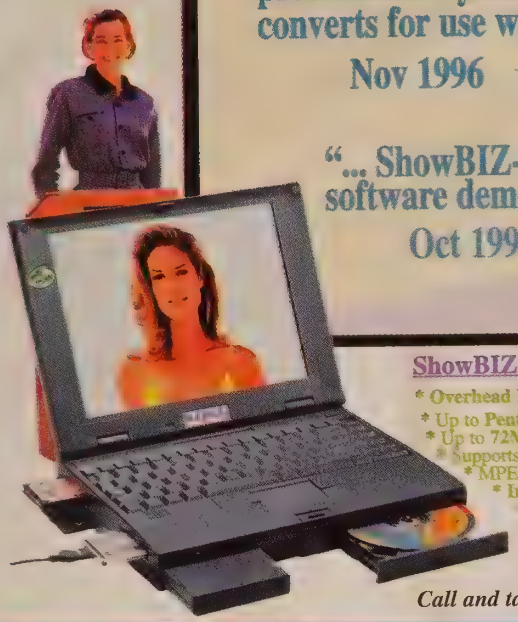

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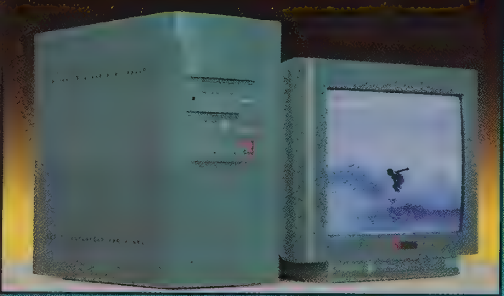

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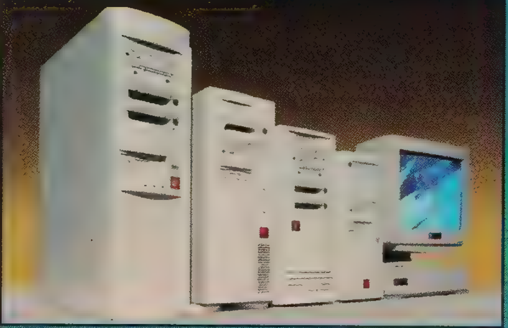

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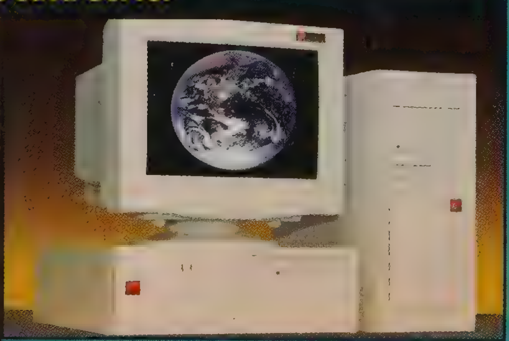

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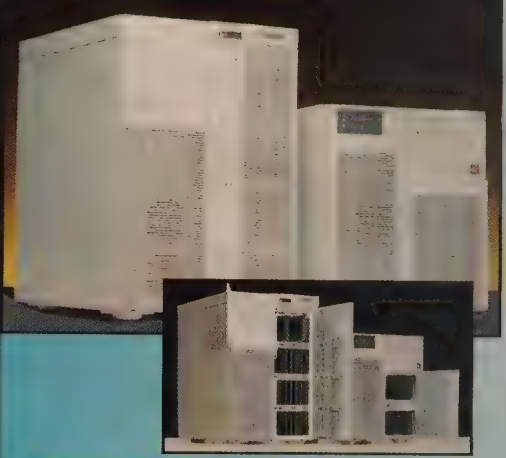

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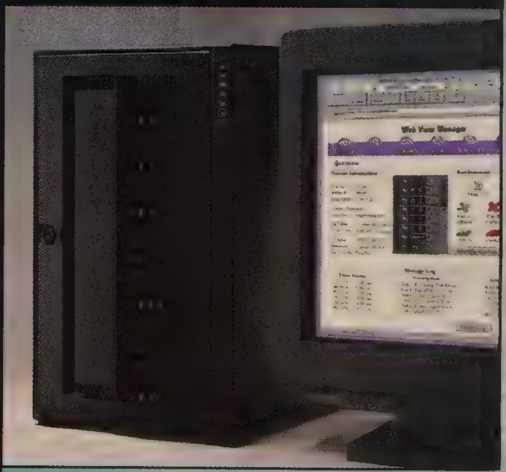

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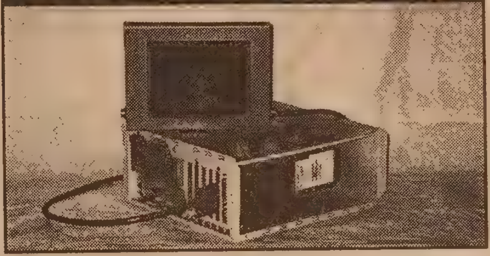

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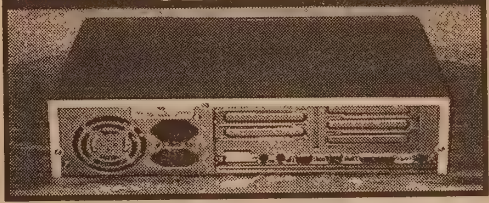

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News and Views

BY PAUL HOFFMAN

Industry Insights

Apple, Microsoft, And The Importance of CEOs

Apple lost its CEO and is about to fail! Apple can be saved! Bill Gates hates Java! Microsoft can't keep up! And so on and so on...

Aren't you tired of this kind of news yet? Having little to write about other than computers that still are difficult to learn and have yet to fulfill their promise of usefulness, much of the computer press has chosen to focus on the personalities at a few companies, trying to make the case that the entire company's fortunes rests on those people.

So far, the press has been consistently wrong about this, but that hasn't stopped them, particularly with respect to Apple Computer.

Apple's board of directors recently fired the CEO, Gilbert Amelio, for not doing a good enough job. This kind of thing happens all the time in many companies much larger than Apple; it sometimes is mentioned in the business section of some newspapers, often on an inside page. In Apple's case, however, it became front-page news in many newspapers throughout the US, particularly in California. Previous corporate firings and hirings at Apple have also gotten this kind of publicity.

> ***The CEO at any company is important,* and at a few companies they make great symbolic figureheads, but the replacement of one CEO with another is a regular business activity.**

What is unclear is why Apple should be any different from any other company. It's not as if Apple is a cult that follows its CEO's word as if it was law, and without a CEO the employees would wander aimlessly from cubicle to cubicle wondering what to do next.

The CEO at any company is important, and at a few companies they make great symbolic figureheads, but the replacement of one CEO with another is a regular business activity.

Who's In Charge?

In its early days, much more than a decade ago, Apple's upstart image shocked a world that thought only what IBM blessed was OK. In order to give that image a human form, Apple's public relations folk pushed the two founders, Steve Jobs and Steve Wozniak, into the limelight—the "dweebs in a garage who became millionaires." That worked well for a while, but Steve Jobs' petulant antics and the industry's greater acceptance of mavericks made "the two Steves" less adorable.

For the last decade, as Apple shifted from one CEO to another, the press has continued to follow the goings-on in Apple's corporate suite with an amazing amount of vigor. Every reorganization at Apple spelled its death, according to some analysts, and the word of the CEO was taken as the word of Apple.

This kind of lavish attention is rarely paid to other companies. For instance, can you name the CEO of the other major players in the microcomputer industry? Who's the top executive at Compaq, Gateway 2000, Packard-Bell, and so on? A few names stick out, most notably Bill Gates at Microsoft, but by and large the CEOs of computer makers are invisible, except at Apple.

Oddly, the media also seem to follow Apple's vice presidents as well. For example, Ellen Hancock, executive vice president for advanced technology, quit when Amelio was fired. Her resignation also garnered lots of press, even though she had been demoted in February and was not in the main line of command at Apple. Her departure was also widely covered even though her presence had not been heavily felt in many months.

While Over At Microsoft...

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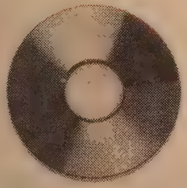

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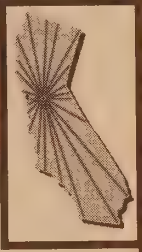

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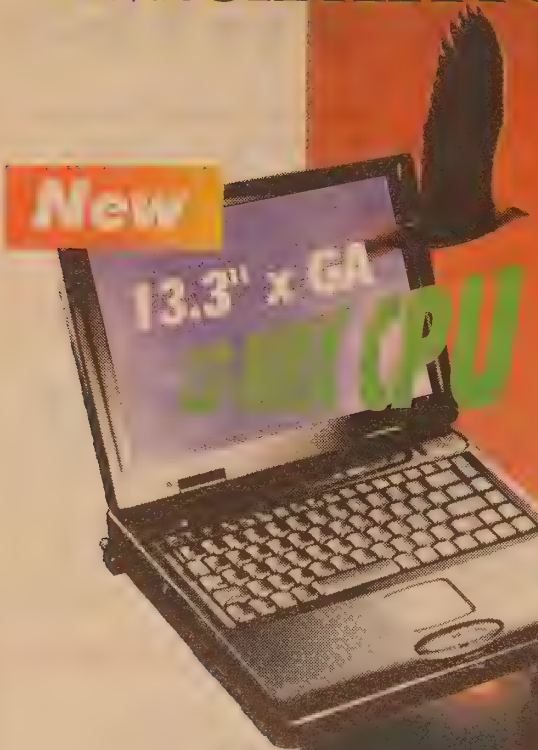

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Industry Insights *continued...*

whose executives get lots of media play. In fact, Bill Gates' name is hundreds of times more recognizable than any CEO at Apple in the last decade. This is probably more due to his money than to his company, but the two are inexorably tied. The popular and trade presses dote on every pronouncement, even when they are just restatements of what most every other company in the industry has been doing for months or years.

Yet in Microsoft's case, it is unlikely that a shift in the corporate hierarchy would result in widespread predictions of doom. Even if Bill Gates decided abruptly to quit (due to the joys of fatherhood, midlife crisis, or the simple realization that he can do whatever he pleases with his billions of dollars), the press would most likely cover the story as "at least he put in place other good executives who can continue to lead Microsoft into the next century."

Few of these executives ever get much coverage outside an occasional article in the computer "lifestyle" magazines like *Wired*, or in *Forbes* or *BusinessWeek*. However, many of the top executives at Microsoft control groups of people who have much more influence over the computer field than anyone at Apple. These people have come and gone at Microsoft throughout the years without even a hint of media coverage.

Even though Apple has top-level folks just as smart as those at Microsoft, the press assumes that if Apple's CEO leaves, everything is a mess and there is no direction. Humorously, the main reason that Amelio was fired was because he hadn't given enough direction to Apple, so firing him shouldn't have the effect of causing no direction.

Profits Count, Too

Amelio "resigned" a week before Apple announced its expected large quarterly loss. By Apple's standards, the loss wasn't all that bad, but it was a loss nonetheless. Soon after Apple's announcement of the loss, Microsoft announced that it had (as expected) made a large profit.

The basic problem with Apple's finances is that it can't figure out how to increase sales without spending huge amounts of money to get the increase. This is typical of many computer manufacturers who sell me-too products like PCs, but it is particularly obvious when a stand-out like Apple can't hold its market share. When you stand up and say "what we've got is different and wonderful," people expect you to keep showing more and more people how wonderful it is, or they get bored.

Wall Street is particularly addicted to this philosophy. They are much more harsh on Apple than on companies that just go along with the current trends, such as the dozens of large, almost faceless manufacturers of PC clones. The reason is risk-aversity: If there's a general drop in the computer market, Wall Street thinks it will hit the mavericks more than the mainline folks. If you do anything too different, you'll get whacked.

Where this argument breaks down is, again,

continued on page 26

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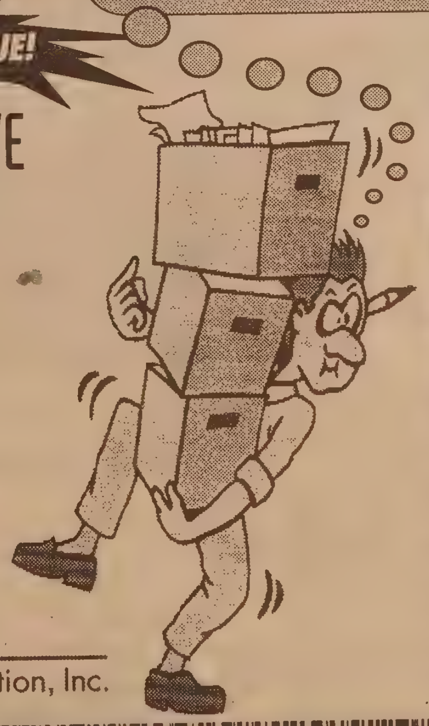

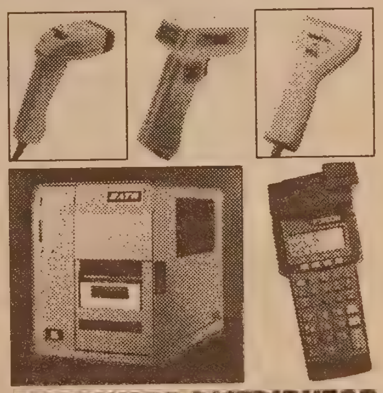

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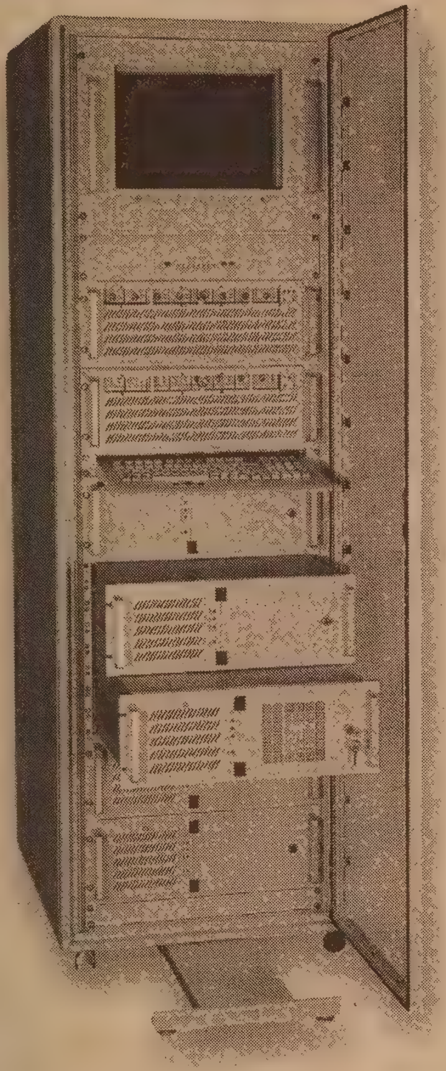

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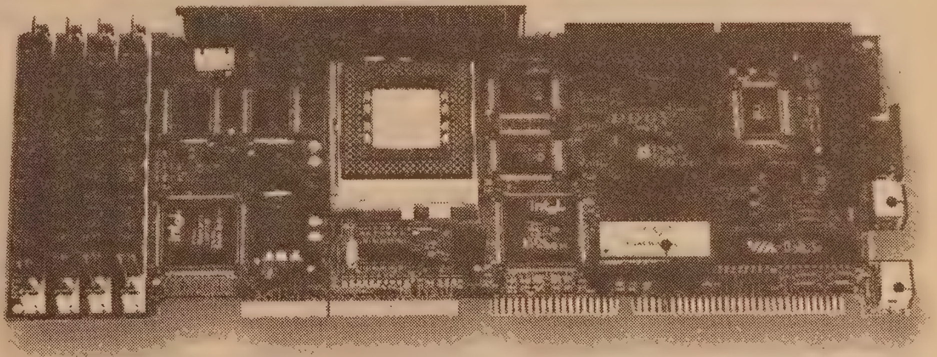

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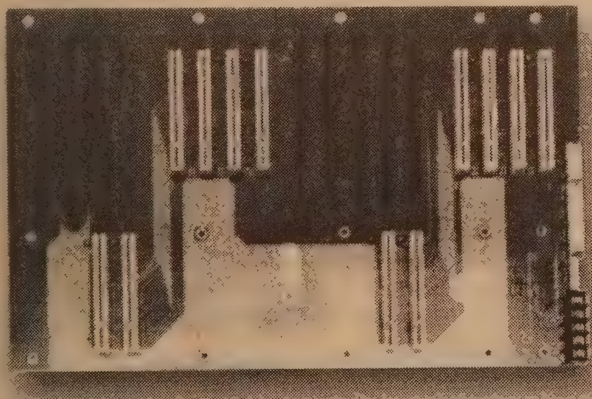

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Industry Insights

continued from page 23

Microsoft. Microsoft owns over two-thirds of the market in operating systems and office suites, as well as a large percentage of the programming and desktop database markets. By becoming an almost-monopoly, Microsoft has turned itself into a maverick, since there are no "clones" in the software business, and everything that Microsoft does is inherently different from any other software manufacturer.

This means that Microsoft now makes its own markets. Windows 95 has no significant competition for sales on PCs. In fact, the most daunting competition it has is Windows 3.1, which is still widely used by many PC owners who refuse to fork over more money for an operating system that takes more hardware resources and runs more slowly. Thus, Windows 98 will be only competing with Microsoft products. Microsoft Office, which reportedly has over 80% of the office suites market, has the same problem.

Getting Help From Your Competition

Because of the financial market's apprehension about its future, Apple's next steps in its own market will possibly make or break its chances. Because of the company's maverick status, new Macintoshes are often sold to current Macintosh users. Apple has to work hard to bring new users into the Macintosh fold, particularly because many users leave when there is as much negative press as there has been recently.

However, since Apple started allowing other hardware companies to sell Macintosh clones, Apple's direct share of the hardware market has fallen as the clone makers have made major inroads in Mac sales. Of course, Apple makes a royalty on each clone sold, but they apparently didn't do a good job of determining what that royalty should be, since they are still losing money.

Thus, Apple has to make three decisions at once: which markets it should try to sell hardware into, which markets it wants other manufacturers to sell into, and how much to charge those manufacturers. Apple appears to be shifting towards a smaller set of markets than a few years ago, and may even be encouraging the cloners to go for those older markets.

A radical, but not completely unlikely, decision that Apple might make is to get out of the hardware-selling business altogether and just design hardware and software for resale by others. Manufacturing takes huge capital resources, and with Apple's low stock price, that kind of capital is harder to come by. Apple should not get completely out of the hardware market; they have very good skills in designing good hardware that is much easier to use than PCs. However, they may decide not to sell that hardware, simply to license the designs.

If they follow this strategy (which many people are urging them to do), Apple a few years from now will be a much smaller company, but will probably be more stable and focused. In many ways, they will be like the operating system side of Microsoft, which makes most of its money from OEM sales. Apple could continue to innovate and find markets no one thought existed, just like in "the good old days."

Even if Apple doesn't do anything radical, there is a good chance they'll be OK. Apple could be a lot smaller than it is now and still make great computers that are easier to use than PCs. However, Wall Street and the press might make that impossible, particularly if the next CEO doesn't have the desired personality or charm. ■

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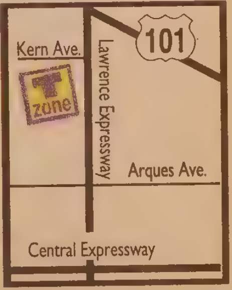

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Industry Insights *continued...*

MICROTIMES INDEX RIDES TECH ROCKET SKYWARD

EXCH	COMPANY	TICKER SYMBOL	CLOSING PRICE 07/03/97	CLOSING PRICE 07/31/97	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL IVIDEN RATE	ANNUAL DIVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE										
NAS	Adobe	ADBE	37.13	37.38	0.25	0.67	15	0.20	0.54	49.00	29.63
NAS	Autodesk (II)	ADSK	38.75	42.38	3.63	9.35	-	0.24	0.57	42.88	18.50
NAS	Borland	BORL	6.75	8.25	1.50	22.22	-	0.00	0.00	9.13	4.75
NAS	Broderbund	BROD	24.06	21.69	-2.38	-9.87	310	0.00	0.00	38.25	17.75
NAS	Informix	IFMX	9.31	11.31	2.00	21.48	-	0.00	0.00	31.13	6.56
NAS	Macromedia	MACR	8.50	9.56	1.06	12.50	-	0.00	0.00	25.63	6.50
NAS	Microsoft (II)	MSFT	129.56	141.50	11.94	9.21	54	0.00	0.00	150.75	58.13
NAS	Novell	NOVL	7.34	7.56	0.22	2.98	18	0.00	0.00	13.00	6.28
NAS	Oracle (II)	ORCL	49.75	54.44	4.69	9.42	45	0.00	0.00	59.00	33.63
NAS	Symantec (II)	SYMC	19.44	24.06	4.63	23.79	51	0.00	0.00	24.13	8.75
	HARDWARE										
NAS	Apple (L)	AAPL	13.69	17.50	3.81	27.85	-	0.00	0.00	27.75	12.75
NYS	Compaq (II)	CPQ	43.55	57.13	13.58	31.17	28	0.00	0.00	57.13	20.50
NYS	Digital Equipment (II)	DEC	36.56	41.13	4.56	12.48	60	0.00	0.00	42.94	25.00
NAS	Dell (II)	DELL	61.19	85.50	24.31	39.73	50	0.00	0.00	86.75	13.13
NYS	Gateway 2000 (II)	GTW	32.56	38.13	5.56	17.08	22	0.00	0.00	46.25	18.88
NYS	Hewlett-Packard (II)	HWP	56.38	70.00	13.63	24.17	27	0.56	0.80	70.88	39.75
NYS	IBM (II)	IBM	94.81	105.75	10.94	11.54	18	0.80	0.76	108.44	51.88
NYS	Silicon Graphics	SGI	17.00	25.13	8.13	47.79	58	0.00	0.00	28.38	12.63
NAS	Sun Microsystems (II)	SUNW	37.13	45.69	8.56	23.06	23	0.00	0.00	47.88	25.38
NYS	Tandy (II)	TAN	56.38	59.44	3.06	5.43	-	0.80	1.35	59.94	37.13
NYS	Xerox (II)	XRX	81.13	82.25	1.13	1.39	22	1.28	1.56	84.00	44.63
	CPU'S										
NYS	Advanced Micro Devices	AMD	35.94	35.13	-0.81	-2.26	-	0.00	0.00	48.50	11.75
NYS	Cypress Semiconductor (II)	CY	14.94	15.31	0.38	2.51	109	0.00	0.00	16.94	9.75
NAS	Cyrix	CYRX	20.13	25.44	5.31	26.40	-	0.00	0.00	30.00	11.50
NAS	Intel (II)	INTC	72.47	91.81	19.34	26.69	24	0.12	0.13	91.81	36.63
NYS	LSI Logic	LSI	31.63	31.50	-0.13	-0.40	30	0.00	0.00	46.88	18.75
NYS	Motorola (II)	MOT	80.44	80.38	-0.06	-0.08	47	0.48	0.60	90.50	44.13
	COMMUNICATIONS										
NAS	3Com	COMS	47.88	54.69	6.81	14.23	-	0.00	0.00	81.38	24.00
NYS	AT&T	T	36.00	36.81	0.81	2.26	12	1.32	3.59	42.63	30.75
NYS	BellSouth Corp. (II)	BLS	47.63	47.38	-0.25	-0.52	18	1.44	3.04	48.69	35.25
NAS	Cisco (II)	CSCO	71.56	79.50	7.94	11.09	46	0.00	0.00	80.94	45.25
NAS	MCI (II)	MCIC	42.38	35.31	-7.06	-16.67	20	0.05	0.14	43.38	23.25
NYS	Northern Telecom (II)	NT	96.50	104.56	8.06	8.35	39	0.60	0.57	107.19	46.75
	INTERNET										
NAS	Earth Link	ELNK	12.25	10.75	-1.50	-12.24	-	0.00	0.00	22.50	8.63
NAS	Netcom	NETC	14.88	15.44	0.56	3.78	-	0.00	0.00	24.25	7.88
NAS	Netscape	NSCP	37.44	36.69	-0.75	-2.00	-	0.00	0.00	65.00	23.50
NAS	Yahoo (II)	YHOO	33.50	56.50	23.00	68.66	-	0.00	0.00	56.50	16.25
	MEDIA										
NYS	Disney	DIS	77.25	80.81	3.56	4.61	29	0.53	0.66	85.13	53.38
NAS	TCI	TCOMA	15.56	17.13	1.56	10.04	-	0.00	0.00	17.13	10.75

KEY: NYS = NEW YORK ASE = AMERICAN NAS = NASDAQ
(II) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	31
DECLINES	8
UNCHANGED	0
NEW HIGHS	21
NEW LOWS	1

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	Dell	$	24.31
LARGEST DOLLAR LOSER	MCI	$	-7.06
LARGEST PERCENTAGE GAINER	Yahoo		68.66 %
LARGEST PERCENTAGE LOSER	MCI		-16.67 %

	CLOSE 07/03/97	CLOSE 07/31/97	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	9842.13	11003.29	1161.15	11.80
DOW JONES INDUSTRIAL AVERAGE	7895.81	8222.61	326.80	4.14
STANDARD & POOR'S 500 INDEX	916.92	954.29	37.37	4.08
N.Y.S.E. COMPOSITE	477.68	494.50	16.82	3.52
NASDAQ COMPOSITE	1467.61	1593.81	126.20	8.60

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DATE	MICRO TIMES	DOW JONES
01/20/97	8729.83	6843.87
02/13/97	8809.79	7022.44
03/13/97	8310.08	6878.89
04/10/97	8083.85	6540.05
05/08/97	9110.24	7136.62
06/05/97	9223.00	7305.29
07/03/97	9842.13	7895.81
07/31/97	11003.29	8222.61

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Wall Street's love affair with technology stocks hit unprecedented heights during the month of July. Nowhere was this more evident than in the MicroTimes Stock Index, which soared from a close of 9842.13 to a new high of 11,003.29 in just 28 days. The upward trajectory for our index of 39 stocks read as follows: up a record 1161.15, or 11.8%.

In comparison, the technology-laden NASDAQ Composite Index sprinted ahead 126.2 points, or 8.6%, to a record high of its own at 1593.81.

Of the 39 stocks in the nearby table, gainers dominated losers by a 3:1 ratio, while those stocks hitting record highs towered over those falling to new lows by a 21:1 count. These two statistics underscore the record-setting performance of the MicroTimes Stock Index during the month of July.

Hardware stocks dominated the headlines last month, led by the likes of Dell Computer, which held on as its stock price shot up $24.31 a share to close at $85.50, but not before it hit a new 52-week high of $86.75 a share along the way. As a result of the stock's dizzying ascent to record levels, the company completed a 2-for-1 stock split in order to make its share more affordable for the masses. The split was Dell's fourth such move in the last five years, and the second in the last eight months alone.

Dell's strong performance lifted the share price of fellow hardware manufacturers last month as well. Some of the big winners included Compaq (up 31.2% to $57.13), Hewlett-Packard (up 24.2% to $70) and Gateway (up 17.1% to $38.13).

Shares of Yahoo! raced ahead $23 a share, or 68.7%, to take largest percentage-gained honors of the lot. The reasons for the sudden and powerful surge last month: The company announced a three-for-two stock split and agreed to purchase Visa's stake in a joint venture. Yahoo closed the monthly trading session at a 52-week high of $56.50 a share.

On the sell side of the ledger, MCI Communications capsized $7.06 a share, or 16.7%, en route to a close of $35.31. The company reported that costs from investments in local service could exceed $800 million, which was double its prior estimates. As a result of the news, MCI was the largest dollar and percentage-casualty of all the stocks in the MicroTimes Stock Index. ■

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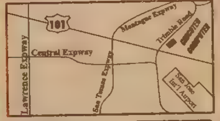

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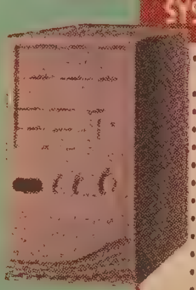

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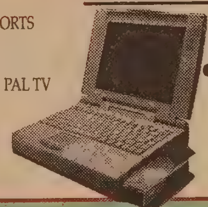

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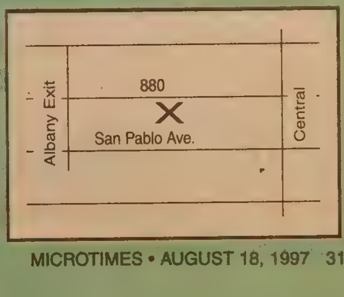

REALIZABLE FANTASIES • BY JIM WARREN

Important Geek Tools

Online Personals Ads

Hey! It's August; time to go play—preferably with a cordial companion (or several).

But we brilliant geeks are notorious underperformers when it comes to finding a date. They're rarely at our favorite computer outlets; they often seem to display hard-to-diagnose compatibility problems; and their firmware is usually difficult to reprogram, with attempts to do so often causing flames and blown fuses.

Those Awful Newspaper Ads

In the old days, we cloistered nerds might covertly peruse the personals ads in newspapers—which were (and are) *much* too limited in useful content, and *much* too misleading, accidentally or intentionally. I mean, are *all* the unattached gals beautiful sports-lovers wanting to walk on the beach after a candlelight dinner, and are *all* the guys sensitive, loving, buffed jocks and corporate executives? Isn't anyone attracted to junk food, pocket-protectors and couch potatoes?

And then there're the mnemonics in personals. You can't tell whether PC means personal computer or politically correct. And what's a SNAG, anyway? (Sensitive New-Age Guy).

Small wonder that many of us read, but few dared to respond—and fewer still dared to respond after a first experience. Part of the problem—most of it, actually—was lack of adequate information on which to make informed choices. And part of that problem was lack of initial communication skills (you mean *talk?* ... by *voice?* ... and not even about Java applets or gate density?) and candor (we almost *can't* ask the most important questions in a phone call or two).

Another sad aspect was that—if the info-less ads and stumbling telcons actually led to a f2f (face to face) meeting, even at a candlelit restaurant next to wave-washed beaches—the fully-animated 3-D models were often a (mutual!) disappointment.

But the email, Web and digital images have begun to change all that.

Along Comes Online Personals

Just as "adult" videos did much to drive the public's rush to VCRs, so too, online personals-type communications seems to be much of what's driving average, non-techie lay people—and especially gyrls and womyn (that's the pc spelling)—to flood onto the Net. (Point-'n'-click Web browsers and computerless Web TV may be the counterparts of the electric starter, which allowed "proper" ladies to drive cars in an era long before it was cool for them to pump iron and open their own doors.)

> Some systems allow posting any text comments, perhaps deleting those deemed **"offensive"**
>
> **(hey!, it's their system—and their liability!).**

First came the endless online personals forums—with content almost as "worthless" as most party conversations.

Next came real-time chat—public and private; then IRC (Internet Relay Chat), reaching beyond a single server.

Now we have the current generation of rapidly evolving, rapidly improving personals advertising and response systems.

Aside About "Sex"

Some systems allow blatant sex solicitations or offers—personal and commercial, a few including photos; some censor all of them; most censor only the commercial offers.

For some time, there have been numerous Web sites that advertise remote cybersex/strippers. For most of two decades, BBS systems and, Web sites more recently, have offered "adult" images (long the support base for local BBSes) and sex product ordering.

Now, there are beginning to be sites that carry commercial ads for *local sex* services—competing with commercial ads in alternative newspapers like the *San Francisco Bay Guardian* and *San Jose Metro*—except with more information, better photos and even appointment processing and other administrative services. One of the first in San Francisco was *www.lovings.com* .

(Now, back to the less sexually-explicit personals systems.)

Often Free, Sometimes Fee

From our extensive testing of online personals systems (only to research this article, of course...), it appears that many of the best ones, with the most listings including extensive personal information, are free, maintained either by benevolent host[esse]s (like traditional social gatherings),

continued on page 37

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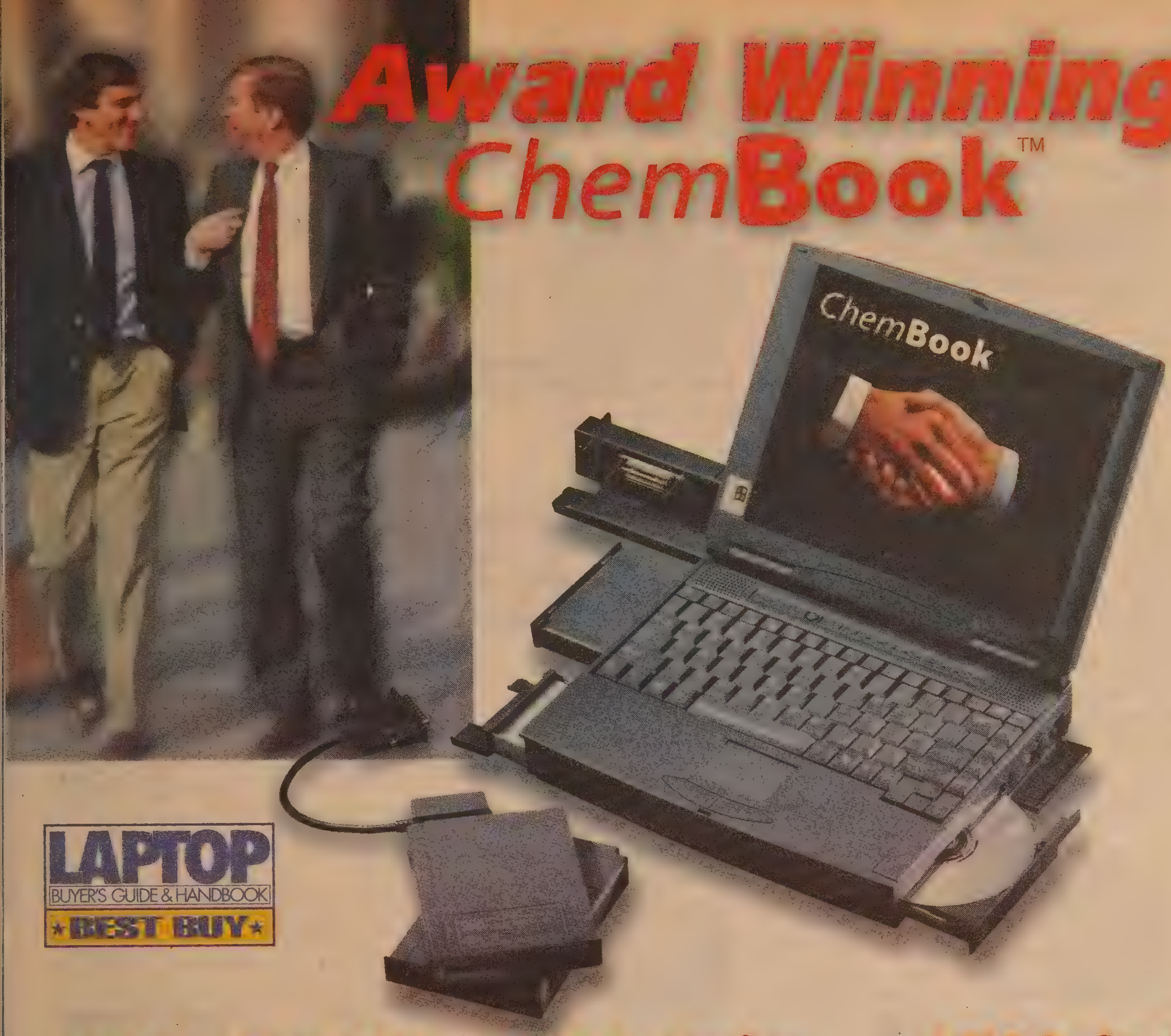

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Option: Port Replicator/PCI Docking/Interal Fax Modem /Battery Charger /Car Adapter

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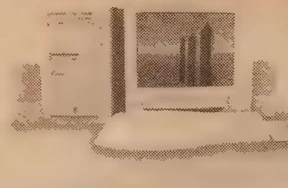

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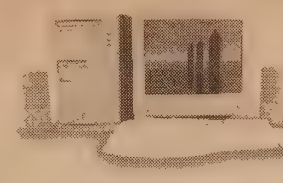

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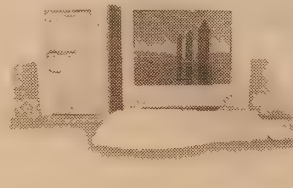

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- Western Digital 1.2GB EIDE Hard Disk
- PCI SVGA Card w/1MB DRAM
- 16X EIDE CD-ROM INT
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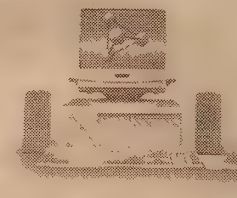

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- Intel Pentium® Processor & CPU Fan
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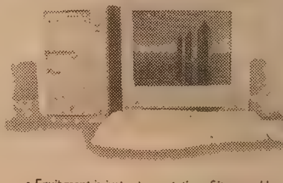

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- Mitsumi 16X EIDE CD ROM
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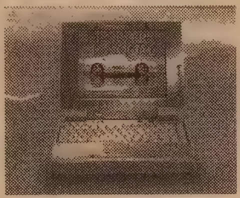

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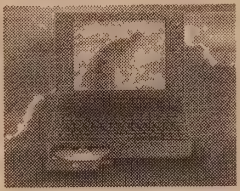

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Realizable Fantasies

continued from page 32

with or without soliciting *voluntary* donations (electronic potlucks), or are underwritten by injecting online ads in each response (thus like *MicroTimes* and free community print tabloids).

The fee-charging systems do not appear to have any advantage over the free-access systems—in quality nor quantity—except that they *may* not clutter responses with other companies' commercials.

Email responses are usually transmitted free (except for personals systems run by ripoff print newspapers). Some systems are starting to offer interesting additional services—usually for a $1 to $10 fee—such as printing and snail-mailing, or faxing, a response to an ad, to the person who posted it.

In every circumstance however, online personals systems provide *much* more information and are *much* cheaper than the outrageous, ripoff multi-bucks-per-minute rates that most newspapers charge to respond to their wee-content personals. If you thought phone-sex was expensive—as rumor has it—just *try* newspapers' personals, the *real* obscenity!

> As with any Web site, personals sites *need* to **focus on rapidly delivering useful content, *not* waste time transmitting massive quantities of cutesy graphics.** Additionally, some waste massive screen-space in poor information formatting.

Wildly Varying Features

Some systems—free or fee—allow you to browse and/or respond to ads without "joining" them; some don't. When joining, some ask for extensive personal information; some even require that members-to-be create their own posting (no coy lurkers); others require little more than a name and email address—usually verified by emailing a membership acceptance and/or password, required to post, modify or delete one's ad(s). Most systems facilitate anonymous postings and/or anonymous responses.

An increasing number of systems—free and fee—are allowing users to add one or even several photos to their ads or personal profiles, often offering a scanning service for a fee.

Some systems allow posting any text comments, perhaps deleting those deemed "offensive" (hey!, it's their system—and their liability!).

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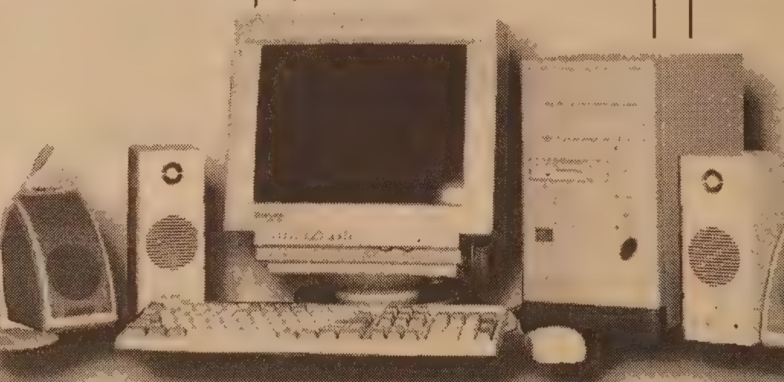

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Realizable Fantasies *continued...*

The more useful systems have a set of limited-response questions that may or must be answered to post an ad—typically city and state plus age, height, weight—or their ranges, etc. Those responses may then allow powerful selection options when searching.

Some systems don't ask for race; some allow a text response for race; others inadequately list the races they've thought of, from which one-only may or must be chosen. (Even the US Census Bureau has decided to stop that single-race-only practice.)

If birth-date is requested, some systems calculate age and display it.

Systems that require membership in order to browse or respond often calculate distance between searcher and searchee, based on their cities or ZIP-codes given when joining. This can be used in search criteria.

Some systems allow a user to have a cc of their response to an ad, to be sent to the user. Irritatingly—some don't.

Some limit text or entire postings to only a few hundred characters! —thus becoming as totally inadequate as newspaper personals.

> The "Alternatives" categories ***need*** **to require an indication** of whether the posting is from an M, W, couple or "other."

Needed Improvements In Some Systems

We have yet to see a system that has even a majority of the features that are now economically reasonable, technically feasible and obviously desirable. For instance:

- As with any Web site, personals sites *need* to focus on rapidly delivering useful content, *not* waste time transmitting massive quantities of cutesy graphics. Additionally, some waste massive screen-space in poor information formatting.
- To encourage "truth in advertising," systems that request any specific information in their ads should *require* at least one's sex, sexual preference(s), offspring info—at least whether one has kids, and whether they're living with the person posting the ad—and basic marital/ living status.
- Some systems don't date-stamp when ads are posted or last modified. It's essential. (In comparison, all of the ripoff response-fee newspaper personals we've seen give no indication of when ads were submitted, and we've noticed some newspaper personals that have appeared many weeks apart—*very* suspicious!)
- There are usually categories for men seeking women, W seeking M, W seeking W, M seeking M, and usually for "Alternatives." There *needs* to be a kids-seeking-kids category for minors (though naming it is difficult)—with very different questions than those asked of adults.
- The "Alternatives" categories *need* to require an indication of whether the posting is from an M, W, couple or "other."
- Systems that require joining in order to respond should keep track of ads to which a member has responded; allow the user to omit those ads from future searches; indicate which ads they've already seen in ad summary lists on each new search, and warn the member if they

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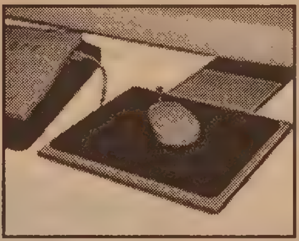

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Realizable Fantasies

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attempt to respond a second time to the same ad. Similarly, membership systems should allow a user to flag ads to which they might wish to respond later, retained in the user's "hot list."

- Almost all specific questions should allow a decline-to-state response.
- Infuriatingly, some systems insist on reformatting text comments in ads—or even in responses—deleting "extra" blank lines, square- or curly- or angle-brackets and even asterisks. (Amateurishly processed angle-brackets *may* cause Web browser problems.)
- Systems that ask "What's your sign?" should allow more options than the twelve astrological "signs" (perhaps, "This space available," "Turn here," "Stop!", etc.)—for those who don't wish to be judged on the basis of being exactly identical to 1/12th of the world's entire past and present population.

> Systems that ask "What's your sign?" should allow more options than the twelve astrological "signs" (perhaps, "This space available," "Turn here," "Stop!", etc.)—**for those who don't wish to be judged** on the basis of being exactly identical to 1/12th of the world's entire past and present population.

Favorite Personals Systems

My favorite personals systems—all of which are free, for browsing as well as responding, but none of which is even nearly "perfect"—include WebPersonals, Love.com, American Singles, and FriendFinder and its related Adult.FriendFinder (except that FriendFinder trashes users' text formatting). All are listed in Silicon Valley Video Group Cool Links at *http://www.garlic.com/~shm/svvglink.html#DATING*.

As a minor footnote: It's disconcerting to see how many people posting personals saying they're college students or graduates or post-grads, and containing *amazing* grammatical and spelling errors. (But we won't discuss why *MicroTimes'* editor insists that I spell-check before submitting these columns!) ■

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Tower Case ATX w/ PS2 Bus Mouse
TEAC 1.44 MB - Microsoft Mouse

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Letters

The Ricochet Effect Revisited

Since I became a Ricochet subscriber more than a year ago [initially after reading a cover article (*www.microtimes.com/metricom.html*) in your publication], I've kept an eye open for media coverage of Metricom and have consistently been surprised at how little there is overall for what I find an astoundingly good product—and a company which, on the couple of occasions I had to deal with them personally, offered some of the best and most competent technical support and customer service I've ever dealt with.

When I read the not particularly negative, but certainly not over-enthusiastic "Magic Meets Ricochet" (Issue #166) article a month ago I considered responding; the follow-up letter in the current issue (#167) has finally motivated me to offer a brief account of my experience with Metricom's Ricochet service—not to address the original article specifically, but merely to offer a different perspective.

Different, in part, because I am not a laptop or PDA user.

My Ricochet sits on my desk at home in Berkeley, CA and hasn't moved from there in a year. It is the sole link to the Net for my local network of various UNIX, Windows, and Macintosh machines (via Linux IP masquerading). I have not used my telephone modem once (for a dialup data connection) since getting Ricochet.

I monitor and log PPP throughput. Since the recent firmware upgrade I get fairly consistent performance of between 5 and 6Kbps on extended transfers in either direction—peaks sometimes higher. This rivals a single ISDN channel, and is better than anyone is likely to see with an asymmetric 56K modem. (Note that Ricochet only claims about half that performance.) I regularly use audio and video conferencing ("phone" applications, CU-SeeMe) and streaming audio programs (RealAudio) over my Ricochet connection with transfer rate parameters set to "single ISDN channel" with very satisfying results.

Another factor of great importance to me is that the Ricochet gives me a 24-hour-a-day connection. I frequently connect to my home machines from the laboratory where I work or while traveling. The monthly cost of a dedicated second phone line and a reliable ISP would certainly approach or equal the $40 or so a month I pay for the Ricochet service—and even a single ISDN channel would of course be much more expensive, especially if I tried to use it around the clock!

So Ricochet constitutes a near-perfect solution for me. OK, any reservations?

The packet latency (as opposed to sustained throughput) is a little slower than it would be for a dialup link. That's unfortunately inherent in this technology. The result is that my interactive (Telnet) sessions—for instance doing a single character echo—sometimes seem a little sluggish, but not painfully so, and I don't really notice it after a while. (Of course, I grew up with 300bps modems...) This is a non-issue for mail, news, file transfer and Web surfing.

I regularly use audio and video conferencing ("phone" applications, CU-SeeMe) and streaming audio programs (RealAudio) over my Ricochet connection with transfer rate parameters set to "single ISDN channel" with very satisfying results.

The most important thing to remember with Ricochet seems to be "location, location, location"—not just in the coverage area at large, but even within, say, the room in which you're using it. This is typical for UHF devices like cell phones and radio modems. A couple of inches repositioning on my desk made the difference between under 3Kbps and over 5Kbps. Current Ricochet firmware very handily has a feature that makes the modem beep 1, 2, 3, or 4 times according to signal strength when you push the power button in—four beeps corresponds to great throughput.

So no, don't expect your Ricochet to deliver optimal performance—or even work at all—everywhere you take it in the coverage area, but do indeed try moving it around to get the best signal before measuring throughput!

And do call Metricom to report areas of poor coverage or other problems. In my experience their technical support people are fantastic and actually know exactly what they are talking about; if they don't know the answer, they're not afraid to admit it and go try to find out. Their customer service representatives are wonderful. It's a mystery to me that more people in the Bay Area aren't using Ricochet.

Adam Jacobs
Berkeley
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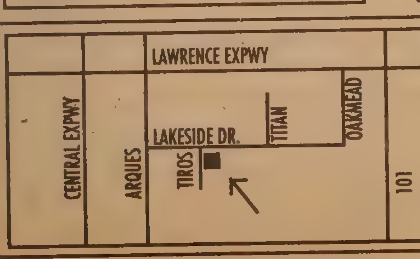

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LAPTOPS • BY ED KAHN

Nikon's Nifty Digital Camera

Digital Photography Is Certainly The Wave Of The Future

With a reasonably good color printer, the right paper, and decent software, you can instantly point-shoot-and-print a single shot or a "roll" (is there such a thing as a roll of digital film?) to create your own photographs. But the promise of digital photography goes far beyond simply taking snapshots and printing them. You can easily store the shots on your computer—either on a hard drive or on floppies, which can than be filed away as easily as a collection of negatives. Furthermore, you can send your digital photos over the Internet nearly instantly. The potential applications are mind-boggling.

I regularly take a look at this emerging technology to see if it is time to trade-in my trusty point-and-shoot 35mm camera. About a year ago, in spite of some significant advances, I felt that for most of us it was still a little early to get too excited about these cameras. This year, as I examined the range of new digital cameras, I was particularly interested in the latest entry from Nikon. Since this company has a reputation for excellent film cameras, I was intrigued by a digital camera bearing the Nikon name.

The Nikon CoolPix 100 is specifically designed to work with a laptop computer. This 5 oz. camera measures roughly 2.25" x 6" x 1", and stores either twenty-one or forty-two images, depending upon the quality of the photos. The four AA batteries that power the camera are included. You can transfer images to your computer at any time; removing the battery pack portion of the camera exposes a PC Card that plugs into the computer. The computer will recognize the card as an additional disk drive—simply transfer the JPEG files to the computer and you are ready to go.

EasyPhoto software lets you group photos into galleries, which are essentially collections of photos much like a film strip.

The neat thing about this system is that there are no additional cables or plugs to contend with. The camera's PC Card is always available to plug into the computer. The whole package is simple and self-contained. Once you have the images on the computer, you can deal with them in a number of ways. The CoolPix 100 comes with EasyPhoto software. This software lets you group photos into galleries, which are essentially collections of photos much like a film strip. From the gallery, you can edit and alter the images before printing them. While photo quality color printers have come down in price, EasyPhoto works with any color printer.

I tested this camera with two different laptops. The first laptop did not recognize the camera. On the second, there was no problem. It worked just like the CoolPix 100 documentation promised—plug in the camera and look for a new disk drive designation on your computer. The problem I had with the first computer was that a driver I had expected to find in Windows 95 was not there. Newer portables generally have the required drivers.

The fact that Nikon has decided to introduce

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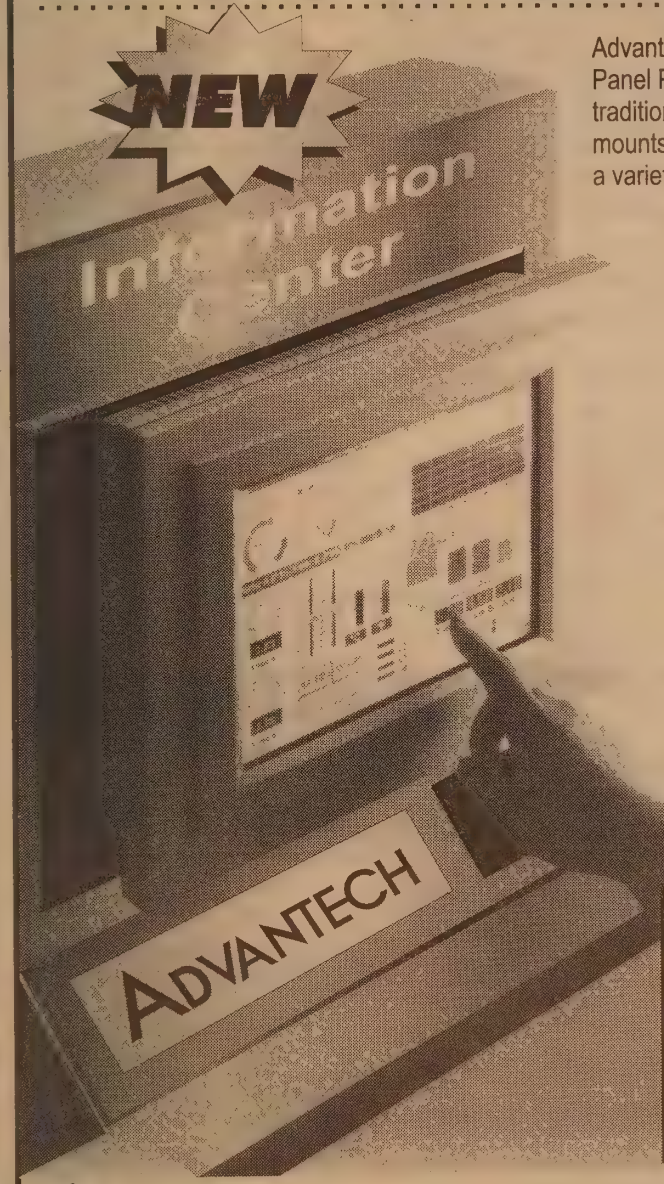

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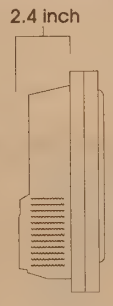

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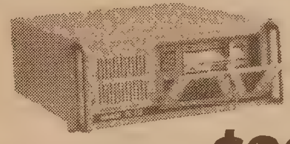

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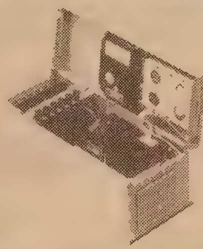

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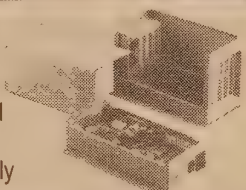

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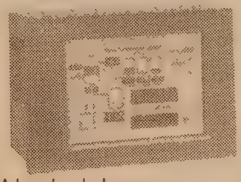

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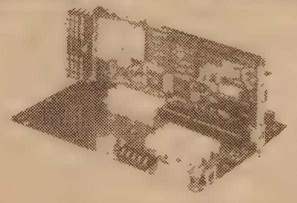

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Laptops *continued...*

a mass-market digital camera means that they are satisfied that this form of photography has come of age. However, while the quality of the CoolPix 100 is considerably better than the cameras I looked at a year ago, few people would make the argument that these cameras really match the quality of a 35mm camera.

The CoolPix 100 is similar in sophistication as a decent point-and-shoot camera and considerably more advanced than the throwaway cameras. When you turn the camera on, an LED screen comes to life. There are three settings for the flash: automatic, always on, and always off. There are buttons for setting for red-eye reduction as well as an automatic timer that lets you rush back to be included in the picture. A quality button lets you select between fine and normal quality on a picture-by-picture basis. A final feature of this camera is the macro switch, which allows you to take pictures as close-up as 5.5". This is particularly convenient for photographing documents and business cards.

There are two ways of removing the files from the camera. An erase button will let you delete the most recent image. By repeatedly pushing this button you can remove additional images. If you want to remove the entire contents in memory, there is a button combination that will clear the memory.

> **The fact that Nikon has decided to introduce a mass-market digital camera means that they are satisfied that this form of photography has come of age.**

While I am not ready to give up conventional photography, I see an expanded place for the current generation of digital photography. It is certainly the wave of the future and the future may not be that far away. If you are considering buying a digital camera, check out the CoolPix 100. It works great in conjunction with a laptop computer that has a PC Card slot.

Nikon offers several different digital cameras, so if this one—the least expensive in the line—doesn't suit your needs, check out one of the other models. The CoolPix 100 also comes with a carrying case, which makes it convenient to carry this small unit in pocket or purse. And finally, the CoolPix 100 is also available for the Mac.

continued on page 52

RESOURCES:

CoolPix 100 Camera, $499
Nikon, Inc.
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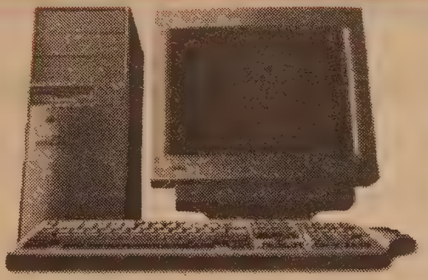

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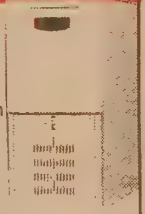
DUAL PENTIUM II SERVER



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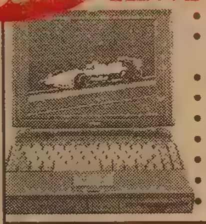

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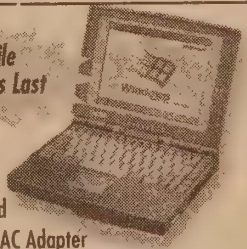

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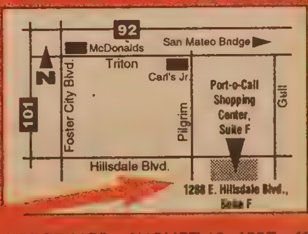

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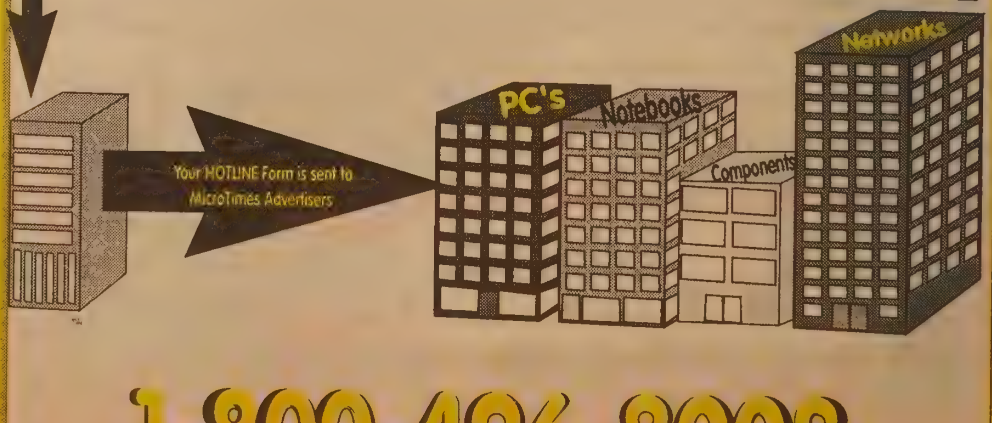

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Last Name

Company Name

Title

Address

City

State

Zip Code

Area Code Phone Number — —

Area Code Fax Number — —

E-Mail Address

E-mail address (continued)

Number of Employees
○ 1 to 10 ○ 50 to 100
○ 10 to 50 ○ Over 100

What Is Your Purchase Time Frame?
○ 1 Week ○ 3 Weeks
○ 2 Weeks ○ 4 Weeks

Please Rank Your Choice
H=High L=Low
Ⓗ Ⓛ Price Ⓗ Ⓛ Service
Ⓗ Ⓛ Reseller Ⓗ Ⓛ Warranty
Ⓗ Ⓛ Onsite Support
Ⓗ Ⓛ Compatibles
Ⓗ Ⓛ Brand Name

To Be Used Where ? ○ Business ○ Home ○ Network

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○ Fax ○ Phone ○ E Mail ○ Mail

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STEP ONE: PICK A SYSTEM.
○ PC COMPATIBLE ○ MACINTOSH
○ PC NAME BRAND ○ Network WORKSTATION
○ PC NOTEBOOK ○ Network FILESERVER
○ MACINTOSH NOTEBOOK

PICK YOUR PREFERENCES
○ Name Brand
○ Compatibles
○ No Preference

Step 1: Enter PC System Brand Name & Model #. If Preference

Step 1: Enter NoteBook Brand Name & Model #. If Preference

Quantity / Choices
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ My Budget For System Is ○ Under $1000 ○ $1000 to $1999 ○ $2000 to $2999 ○ $3000 to $3999 ○ $4000 to $4999 ○ Over $5000
10 or More ○ Call Me For A More Detailed Quote. ○ Quote Me For Selected Upgrade/Peripherals Choices Only. ○

STEP TWO: SYSTEM CONFIGURATION: ○ INTEL ○ PENTIUM MMX ○ DUAL CPU'S ○ PENTIUM PRO ○ PENTIUM ○ 486 ○ AMD ○ CYRIX
○ MACPOWER PC ○ MAC QUADRA/PERFORMA

CPU MHz & SPEED:
○ DX4 ○ DX2 ○ DX ○ 5X86 ○ 6X86 ○ Quadra ○ PowerPC
○ 200 ○ 180 ○ 166 ○ 150 ○ 133 ○ 120 ○ 100 ○ 80 ○ 75 ○ 66

BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA

CACHE ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ EDO ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync

HARD DISK DRIVE: ○ 100MB+ ○ 800MB+ ○ 1GB+ ○ 2.5GB+ ○ 4GB+
○ IDE ○ SCSI ○ ZIP DR ○ JAZZ ○ 2GB+ ○ 3GB+ ○ 6GB+

FLOPPY DRIVE: ○ 1.44MB
and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External
○ 33600bps ○ 14400bps ○ 28800bps

CASE TYPE: ○ Mid Tower
○ Desktop ○ Full Tower

VIDEO CARD RAM ○ 512KB
○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard
○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SYSTEM NEEDED: ○ Windows 95 ○ OS2/Warp
○ Win NT ○ Mac ○ UNIX ○ DOS/Windows 3.11

STEP THREE: MULTIMEDIA UPGRADE ○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately

CD ROM DRIVE: ○ Internal
○ IDE ○ SCSI ○ External
CD ROM TITLES INCLUDED:
○ 1-5 ○ 5-10 ○ 11+

○ 6X
○ 8X
○ 10X
○ 12X
○ 16x

○ BRAND NAME ○ No Brand Name Preference
CD ROM Brand Name and Model Number

SOUND CARD
○ 16Bit
○ 32Bit

SPEAKERS
○ Less Than 25W
○ 25 to 50W
○ 50 to 75W
○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4

SCREEN TYPE: ○ 10" ○ 11' ○ 12'
○ Active Color ○ Dual Scan ○ 13'

PCMCIA SLOT:
○ Type II ○ Type III ○ Type IV

○ Audio Capable ○ Docking Station ○ Extra Battery
○ Fax Modem ○ CD\MultiMedia

STEP FIVE: NETWORKING NEEDS: ○ Please Contact Me on My Networking Needs Indicated Below
○ Software ○ Hardware ○ Consultation ○ Design ○ Installation ○ Administration ○ MS Workgroups
○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Lantastic ○ Apple Talk ○ Novell ○ MS NT

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STEP SIX: UPGRADES & PERIPHERALS: ○ Ink Jet Printer ○ Tape Backup ○ Accelerator ○ Digitizer
○ Laser Printer ○ Color Printer ○ Dot Matrix Printer ○ Flat Bed Scanner ○ Hand Scanner

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QUOTATION HOTLINE

Laptops *continued from page 48*

Computer Of The Month

Hewlett-Packard's OmniBook 2000

Hewlett-Packard makes great portable computers, but they do not come cheap—at least, not until now. In many ways, the OmniBook 2000 can be seen as a "value line" computer; you get a lot for your money from a first-tier vendor who will be around when you need service.

The OmniBook 2000 comes in a variety of configurations, but all models include: 16MB of RAM, expandable all the way up to 128MB; a generous 12.1" color display, either active or dual-scan; and a Pentium 133MHz processor with the option of MMX technology. The basic system measures 8.9" x 11.6" x 1.9" thick and weighs around 7 lbs. You can choose either a 1.44GB or a 2.0GB hard drive.

Hewlett-Packard has designed a wonderful, near-faultless, computer. The main missing feature is a keyboard with the Microsoft keys. These extra keys, which have become fairly standard, let you hit a key to bring up the start icon on the task bar. Combinations of this key with several others provide shortcuts to the Control Panel and Microsoft Explorer. I have become dependent upon these keys, but for some reason HP has not included them on the OmniBook 2000 keyboard. Aside from that omission, I like the touch and feel of the keyboard and find its layout easy to work with.

The OmniBook 2000 can be seen as a "value line" computer. You get a lot for your money from a first-tier vendor who will be around when you need service.

If you decide to connect an external keyboard, it is easy to attach one to the keyboard/mouse port on the back. HP uses a TrackPoint III button located in the middle of the keyboard for its pointing device. I find this one easy to use, but for me, overall, the jury is still out on what is the best pointing device. Certainly, when it is feasible, I would prefer a mouse. In the case of this computer, you can attach a mouse to the same port on the back of the machine, but if you want both an external keyboard and a mouse, you will have to buy a Y-adapter which is available at computer stores for not much money.

The color display is as good as it gets, but if you are working in a fixed location, you may still prefer a larger external monitor. Again, this is easily done through the port on the back of the computer. Depending upon what resolution of monitor you are using, you may or may not be able to use both the external and internal display simultaneously.

Hewlett-Packard has designed the OmniBook 2000 for flexibility. The bay in the front comes with a floppy drive. You can, however, remove the floppy drive and replace it with either an optional 10X CD-ROM drive ($270) or a second lithium-ion battery pack ($297) to work beyond the two-and-a-half hours the primary battery will deliver. One of the unique features of this design is that you can attach the floppy drive to the parallel port on the side of the computer if you want to use the bay for one of the accessories.

Another good design element of this computer is the on/off switch. There are actually two switches: The most accessible, located on the top, puts the computer into suspend mode, which lets you return to exactly where you left off earlier. On the side is a second switch. This actually shuts down the whole system and you will lose any open files when you use this button. Clearly, the design concept is that you will use the suspend switch most of the time. This makes for turning the computer on and off quickly and easily, which will lead to power conservation.

Two PC Card slots come built-in; they will accommodate either two Type I or II cards or

PENTIUM II MMX ENGINE

○ Intel Pentium II **PD440FX " MMX "**
- Intel Pentium II MMX Processor
- with 512k L2 Cache and " MMX "
- Built-in EIDE & 16550 IO Ports
- Built-in EPP & Floppy I/F Ports
- Built-in 16Bit Audio Device
- 64MB-60ns 72pin Memory
- 3Com 100T PCI Ethernet Adapter
- Adaptec 2940UW PCI SCSI Adapter
- ST34371W 4.3GB Ultra-Wide HDD
- 1.44MB Teac Floppy Disk Drive
- Matrox Mystique PCI w/. 2MB RAM
- NEC 16X SCSI-2 Internal CDROM
- ATX Mini-Tower w/. Power Supply
- MS PS/2 Mouse & PS/2 Keyboard

Pentium-II 233 MHz $2,570
Pentium-II 266 MHz $2,760

Call for Dual Penitum-II Systems

NT WORKSTATION

○ Intel **Marl Triton II PCI** System
- Intel Pentium Processor w/ Fan
- PCI-ISA Bus with 512k Burst Cache
- Built-in EIDE & 16550 IO Ports
- Built-in EPP & Floppy I/F Ports
- 32MB-60ns,72Pin EDO Memory
- Toshiba 16X IDE CDROM
- 2.1GB Enhanced IDE Hard Drive
- 1.44MB Teac Floppy Disk Drive
- Trident3D Blazer PCI w/. 2MB SGRAM
- ATX Mini-Tower Case w/ UL PS
- MS PS/2 Mouse & PS/2 Keyboard
- 17" Acer 1280x1024 PnP Monitor
- MS Windows NT 4.0 Workstation

Pentium 200 MHz $1,595
Pentium 166 MHz $1,495
Pentium 133 MHz $1,450
Pentium 120 MHz $1,430

MMX WIN95-STATION

○ Intel **TX430 Triton PCI** System
- Intel Pentium **MMX** Processor
- PCI-ISA Bus with 512k Burst Cache
- Built-in EIDE & 16550 IO Ports
- Built-in EPP & Floppy I/F Ports
- Built-in 16Bit Sound Device,ATX
- 32MB-60ns,72pin EDO Memory
- 2.1GB Enhanced IDE Hard Drive
- 1.44MB Teac Floppy Disk Drive
- Matrox Millennium 2MB WRAM PCI
- Toshiba 16X CD-ROM w/. Speakers
- ATX Mini-Tower Case w/ UL PS
- MS PS/2 Mouse & PS/2 Keyboar
- Viewsonic 17" Monitor GT771
- Microsoft Windows 95 on CD

Pentium 233 MMX $1,870
Pentium 200 MMX $1,735
Pentium 166 MMX $1,655

PRO HOUSEPOWER

○ Intel **Venus 440FX P6 PCI** System
- Intel Pentium Pro Processor w/ Fan
- PCI-ISA Bus with Natoma Chipset
- Intel ATX Form Venus Motherboard
- Built-in EIDE & 16550 IO Ports
- Built-in EPP & Floppy I/F Ports
- 64MB-60ns,72pin EDO Memory
- Quantum 2.1GB Ultra-SCSI HDD
- AHA2940U PCI Ultra-SCSI Adapter
- 1.44MB Teac Floppy Disk Drive
- Matrox Mystique PCI w/. 2MB RAM
- Toshiba 12X SCSI-2 Int. CD-ROM
- ATX Mid-Tower Case w/ UL PS
- MS PS/2 Mouse & PS/2 Keyboard
- Sony CPD200SF, 17" SVGA Monitor

Pro-P6 200/512k $2,830
Pro-P6 200/256k $2,370
Pro-P6 180 MHz $2,125

DUAL PENTIUM-II 266MHz SUPER-SERVER

$4,475

- **Dual Intel Pentium-II 266MHz Processors & Fans**
- **Intel PD440FX and 512k L2 Cache**
- **PCI-ISA Bus and PCI Bridge**
- **Built-in 2940UW SCSI Adapter**
- **Adaptec Raid-Port Bus Ready**
- **Seagate 4.5GB Ultra-Wide SCSI HD**
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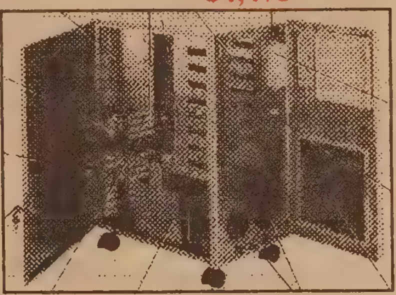

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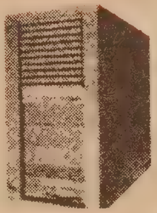

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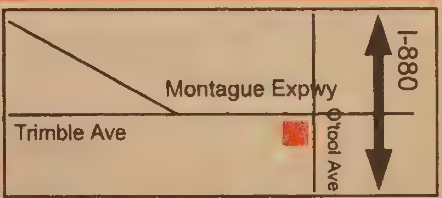

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If the serial port seems too cumbersome for the transfer of files, there is also an infrared port, designed to make wireless file transfers easy.

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The OmniBook 2000 comes pre-loaded with Windows 95, but upon initialization you must choose between Windows 95 and Windows for Workgroups. Once you have made this selection, the other system is erased from the hard drive and is no longer an option unless you purchase it separately. In addition to the operating system, HP includes proprietary software to make it easier to alter configurations in the future.

HP offers both a docking station ($630) with slots for expansion and a port replicator ($180), which is the easiest way to connect a keyboard, mouse, monitor and such and not have to unplug everything when you want to take the portable on the go.

The OmniBook 2000 comes with a limited three-year parts and labor warranty. Hewlett-Packard is a company that releases consistently good products. This computer gives you a product at a price below what we might expect to pay for a Hewlett-Packard notebook computer. ■

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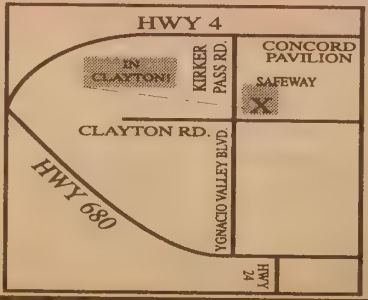

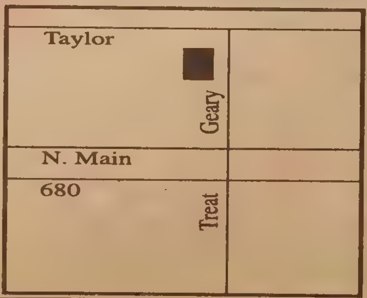

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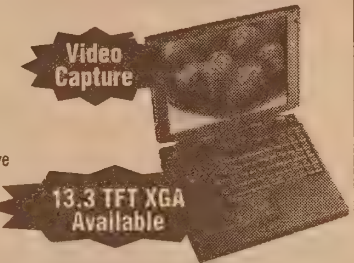

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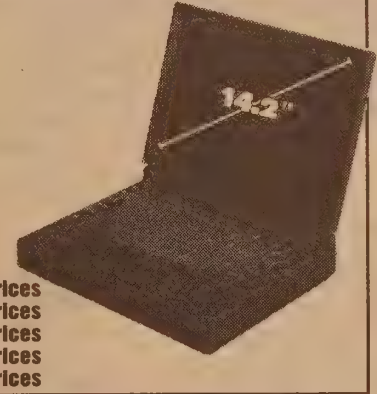

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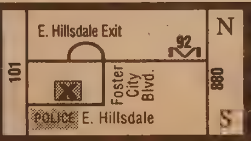

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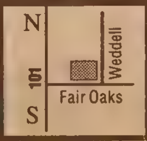

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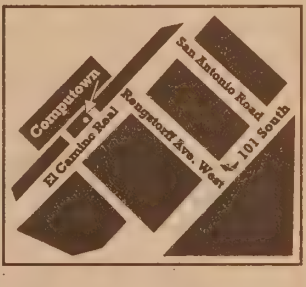

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NETWORKING • BY PETER JOHN HARRISON

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The eternal battle between needs and resources is an old and sad story. Network users need processor power and speed to get their work done. Network managers hope to maintain their user's working environment with as little disruption as possible. Corporate managers strive to contain costs. For many network environments, these forces all work in opposition when a computer's processing ability starts to lag behind the needs of the software it is running.

Replacing a computer system with a faster, more powerful unit is, after all, a very expensive proposition. Not only is there the cost of purchasing the new system, there is also the cost of the old system, which may not be fully paid for or depreciated off the books. There is also a substantial investment of network administrator's time, which includes time spent first backing user's files up from old computers, installing new computers, installing software, and restoring the user's files. And while this is happening the computer user sits idle and unproductive, further driving up costs.

The end result is that a lot of companies avoid replacing their computers. That means there is a very large base of 486 computers that, Pentium technology aside, are still working and slaving away in schools, businesses, and homes. The problem for the users of these older 486 systems is that their computers really are too slow for today's more demanding operating systems and graphics-intensive applications. Even word processors, which generally work just fine on CPUs lagging one or two generations behind the current state-of-the-art are hopelessly slow on older 486-based computer systems. So the question for many network managers has become "How can I provide my existing base of 486 computer users with the processing power they need without replacing their entire system?" The solution that works best in your environment depends on what kind of computers you have. The lab I work in, for example, recently received half a dozen "486" computer systems, which incorporate CPU "daughterboards" into their design.

Daughterboards contain system CPU chip and CPU-specific supporting circuitry that most systems integrate into a motherboard's design. The motherboard supports only the circuitry common to all systems, regardless of the type of CPU it has—interfaces with the keyboard, power connectors, hard drives, and other system devices. Daughterboards make upgrading a system's processor almost trivial. You just open up the computer case, remove the old CPU daughterboard, and install the new. (On some daughterboard systems you may also want to transfer the clip-in memory SIMM boards from the old daughterboard to the new.) That leaves the rest of the system—the hard drive and its contents, keyboard, network connections, and so on—intact.

> Systems with daughterboard cards are, by far, ***the easiest to upgrade*** as technology changes.

Systems with daughterboard cards are, by far, the easiest to upgrade as technology changes. Because the system's CPU and supporting circuitry is all on the daughterboard card, swapping the card boosts system performance most or all the way to what the user would see with a brand-new system. It is also a real winner for the network administrator, because the job is quick and easy to do. For larger companies it is also a winner on the financial front, because the cost generally falls into easier to justify "maintenance" instead of "capital" category.

No upgrade option is perfect, though. For starters, you have to buy daughterboards designed to work in the systems you are upgrading. That tends to limit you to the upgrades directly from your system manufacturers, who charge a premium for the components. Another problem is that, while many computer systems designed for the business environment do incorporate daughterboards into their design, most do not. If you do not know if your systems have daughterboards, the best thing to do is to check your manufacturer specifications or ask your dealer if a "daughterboard upgrade" is available for the systems you hope to upgrade.

Even if your systems do not have a daughterboard, there is still hope. I have three 486 systems in my lab, for example, that do not have daughterboards, but was nevertheless able to upgrade all of them to Pentium-like performance with an easy-to-install CPU upgrade.

There are several sources for 486 processor upgrades—most of them based on the AMD 5x86 processor. The AMD 5x86 processor is a CPU chip that is pin-compatible with older 486 CPUs but performs at levels roughly equal to those of a 75MHz Intel Pentium CPU. I tried out two different upgrade packages, one a pre-

continued on page 62

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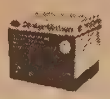

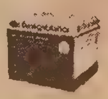

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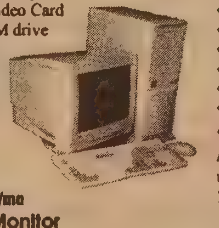

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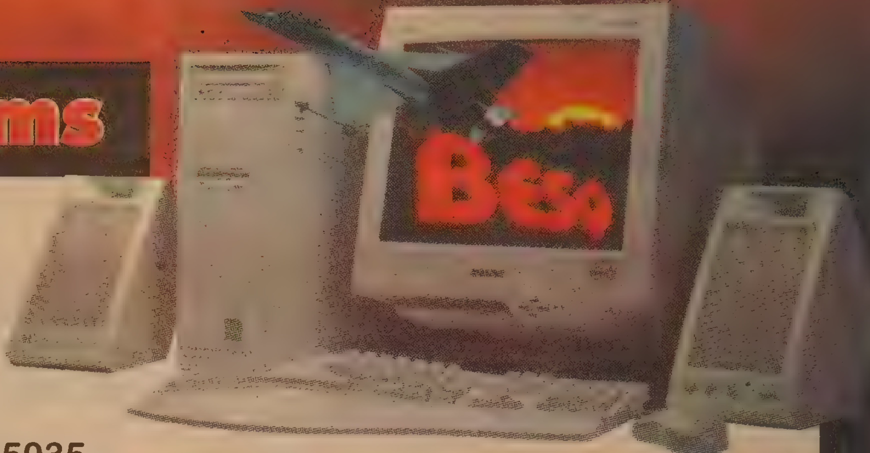

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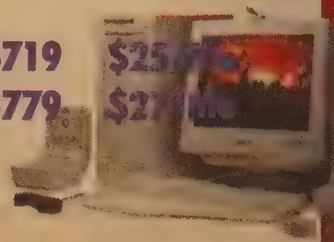

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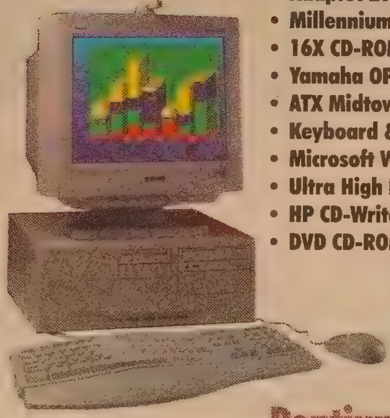

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Networking *continued from page 58*

assembled upgrade from Evergreen Technologies, the other I built myself using off-the-shelf components from a local electronics superstore.

I installed the Evergreen Technologies upgrade first, and was genuinely thrilled with the results. The instructions that came with the product were clear and easy to follow. In brief, all you need do to install the upgrade installation is to use the CPU pry bar included in the kit to remove the old CPU from its socket, set some jumpers on the upgrade, and plug it in to the socket.

It really is close to that simple—though I encountered one problem removing one of my CPUs. When I pried my Cyrix 486 chip from its socket, one of the pins broke off. I had to pull the errant pin from the CPU socket with a pair of tweezers before installing the upgrade. Even including this misadventure installing my replacement CPU took less than forty minutes, including time spent reading the manual. Now I have done it once I could probably do the whole thing, from opening the case to closing it back up, in ten minutes. (Author's note: Evergreen also has a mail-in program for upgrading laptop computers.)

The most complex task required to install the Evergreen CPU upgrade is to figure out what speed your old CPU runs at. Once you have figured that out, you follow the instructions to set a jumper on the upgrade, then you just plug the new CPU in, close the case up, and turn on the system. At under $200 the Evergreen and other upgrade kits are inexpensive and easy to install, but if you are the adventurous type you can take the do-it-yourself approach. I did this by buying a "loose" AMD 5x86 CPU, a CPU upgrade socket with a built-in CPU voltage regulator, and a CPU cooling fan from an electronics superstore.

The installation process for the loose components is pretty much the same. You just add a few extra steps while you assemble the 5x86 CPU, upgrade socket, and cooling fan. Unless you do know what you are doing, though, I did not think the do-it-yourself approach is a good idea. First of all, there is no instruction book to guide you through the process. You also do not get the nice CPU pry bar to help you remove the old CPU from the motherboard. (The right tool for the job is always nice. If I had not gotten the CPU pry bar in the Evergreen kit, I would probably have tried to pry the thing out with a screwdriver—with possibly disastrous results.) Perhaps most important, if you run in to problems with the do-it-yourself approach, there is no tech support line to call for help.

Other than the installation process itself, my pre-assembled and build-it-myself upgrades performed identically when I powered up the two systems. The benchmark utilities I used after installing the CPUs turned in performances 75% faster than their old 486DX/2-66 CPUs could provide. At 53191 Dhrystones, the upgraded CPUs outperformed a name-brand Pentium-60 I have in my lab—right at the per-

continued on page 66

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- miroMedia 3D 2MB PCI w/TV out
- 12X EIDE CD ROM Drive
- Stereo 16-bit SC w/wave table
- 33.6k int. faxmodem w/microphone
- Mitsumi 104 enhanced keyboard
- Medium Tower Case w/PS
- Logitech 2-button serial mouse
- 14" SVGA Monitor .28 NI (1024x768)
- 60w stereo speakers w/Sub Woofer
- Microsoft® Windows 95 (OSR2)
- FREE Descent II, Terminal Velocity
- FREE Grolier 97 Enc. CD
- FREE Complus, miroMEDIA Manager
- FREE Microsoft Phone

$959

Multimedia Notebooks

* Fujitsu Lifebook 535T; P133, 2GB, 16MB, 10X CD, 12.1" TFT, 33.6K, Windows 95	$2450
* Fujitsu Lifebook 635T; P133, 1.3GB, 16MB, 28.8K, 12.1" TFT, Windows 95	$2795
* Fujitsu Lifebook 655TX; P150MMX, 1.3G, 16MB, 33.6K, 12.1" TFT, Windows 95	$3999
* Toshiba Portege 660CDT; P150, 1.35G, 16MB, 10X, 28.8K, 11.3" TFT, Windows 95	$4295
* Toshiba Satellite 220CDS; P133, 16MB, 1.4G, 10X, 12.1" DSTN, Windows 95	$1999
* Toshiba Satellite 430CDT; P120, 16MB, 1.3G, 10X, 11.3" TFT, Windows 95	$2295
* Toshiba Tecra 730XCDT; P150MMX, 16MB, 2.1G, 6X, 28.8K, 12.1" TFT, Windows 95	$4295
* HP OmniBook 5700CTX; P166MMX, 32MB, 3G, 12.1" TFT, Windows 3.11 or 95	$Call

** Please call store for more choices & best price*

Home Multimedia System

586PCI 437VX Chipset Motherboard
256K Pipeline Burst Cache
CPU heatsink & cooling fan
AMD K5-PR166 Processor
16MB 60ns EDO RAM (Exp. 128MB)
1.44MB 3-1/2" Floppy Drive
1.6Gig EIDE Hard Drive
2 (16550)Serials, 1 Parallel Port
Enhanced PCI IDE Controller
SVGA PCI 1mb EDO
12X EIDE CD ROM & 16-Bit SC
FREE Grolier 97 Enc., CD Games
FREE Computer Stereo Speakers
Mitsumi 104 enhanced Keyboard
Mini Tower Case w/PS
Logitech 3-button Serial Mouse
Microsoft® Windows 95 (OSR2)

$655

*monitor sold separately

ATX Multimedia System

Intel Tucson i430HX motherboard (ATX)
256K Pipeline Burst Cache
CPU Heatsink & Cooling Fan
Intel 133MHz Pentium processor
32MB 60ns EDO Ram (Exp. 128MB)
1.44MB 3-1/2" Floppy Drive
2 (16550)Serials, 1 Parallel Port, 1 PS/2
2.0Gig EIDE Hard Drive
Enhanced PCI IDE Controller
Diamond Stealth 2000 3D 2mb EDO
16X EIDE CD ROM Drive
Yamaha 3-D SRS sound (built-in)
Maxi Switch 104 Keyboard PS/2
Medium Tower Case (ATX) w/PS
Logitech 3-Button PS/2 Mouse
Yamaha YST-M15 Stereo Speakers
Microsoft® Windows 95 (OSR2)

$929

*Add $20.00 for AMD K5-PR166

* monitor sold separately

MMX Multimedia System

ABIT i430TX Chipset motherboard
512K Pipeline Burst Cache
CPU Heatsink & Cooling Fan
Cyrix 6x86MX-P166+ CPU
32MB EDO RAM (Exp. to 128MB)
1.44MB 3-1/2" Floppy Drive
2 (16550)Serials, 1 Parallel Port
2.5Gig EIDE Hard Drive
Enhanced PCI IDE Controller
ATI 3D Expression 64 PCI 2MB
16X CD ROM Drive & 16-bit SC
Supra 33.6k Internal Voice Faxmodem
Fujitsu 104S Enhanced Keyboard
Premium Mid Tower Case w/PS
Logitech MouseMan serial mouse
Yamaha YST-M7 Stereo Speakers
MS Windows 95 (OSR2) & J++

$1039

Upgrade to Intel processor $CALL

* monitor sold separately

Pro Workstation

Intel Venus 440FX motherboard
Intel® 180MHz Pentium® Pro processor
Built-in 256K L2 Cache
CPU Heatsink & Cooling Fan
32MB EDO RAM (Exp. to 128MB)
1.44MB 3-1/2" Floppy Drive
2 (16550)Serial, 1 Parallel, 1 PS/2
3.0Gig EIDE Hard Drive
Enhanced PCI IDE Controller
Lightspeed 128 PCI 2.25mb MDRAM
16X CD ROM Drive & 16-bit SC
Supra 33.6k Internal Voice Faxmodem
3Com 100mbps PCI NIC
Keytronic 104 Enhanced Keyboard PS/2
Premium Mid Tower ATX Case w/PS
Logitech 3-button PS/2 mouse
MS Windows NT 4.0 WS & J++

$1299

*monitor sold separately

MMX Advanced Workstation

Intel Portland motherboard
Intel® 233MHz Pentium® II processor
MMX technology w/512K L2 Cache
CPU Heatsink & Cooling Fan
64MB EDO RAM (Exp. to 128MB)
1.44MB 3-1/2" Floppy Drive
2 (16550)Serial, 1 Parallel, 1 PS/2
3.2Gig Ultra SCSI Hard Drive
Adaptec 2940au Ultra PCI SCSI
Matrox Millenium 4MB VRAM
12X SCSI-2 CD ROM & 16-bit SC
Supra 33.6k Internal Voice Faxmodem
3Com 100mbps PCI NIC
Fujitsu104E Enhanced Keyboard
Premium Mid Tower ATX Case w/PS
Logitech 3-button PS/2 mouse
MS Windows NT 4.0 WS & J++

$2279

*monitor sold separately

ACCESSORIES

3M Travan TR-1 800MB for T1000	$25
3M Travan TR-3 3.2Gig for T3000	**$24**
3M Travan TR-4 4Gig for T4000	$39
SONY QW3010XLF 850MB	$15
Juster SP-868 Stereo speakers	$29
Juster Subwoofer	$72
Yamaha YST-M7 Speakers	$45
Yamaha YST-M15 Speakers	$85
Stereo Speakers w.subwoofer	$72
CPU Cooling Kit (adjustable) ball bearing	$15
CPU Cooling Kit w/heatsink & fan (486/586)	$5/7
Ball bearing cooling fan & heatsink for Cyrix & IBM	$12
IDE HardDrive Remavable kit	$29

CD ROM DRIVES

Acer 12X IDE	$65
Creative Lab 8X/12 IDE (panasonic)	$55/67
CyberDrive 12X IDE	$59
CyberDrive 12X SCSI-2	$110
FUNAI 8X/16X IDE	$65/79
Mitsumi 8X/12X/16X IDE	$55/67/79
Nakamichi 4X4 IDE CD changer w/controller	$78
NEC 8X IDE	$65
NEC 8X SCSI-2 Caddyless	$call
Pioneer 12X IDE	$65
Teac 8X/16X IDE	$65/79
Toshiba XM-5702B/6200B 12X/16X 125ms 256k	$72/82
Toshiba XM-3701 12x SCSI-2 256k	$129
Toshiba XM-3801 15X SCSI-2 <99ms 256k	$149
*** RECORDABLE CD ROM DRIVE ***	
RICOH 2x(write)/4x(read) 1MB cache	$Call
RICOH Rewritable Drive	$Call
SONY 2x(write)/4x(read) 1MB cache	$Call
HP SureStore CD-Writer 6020 2x/6x	$Call

CONTROLLERS

adaptec AHA-2940 SCSI-2 w/kit	$145
adaptec AHA-2940au ultraSCSI	$175
adaptec AHA-2940uw ultraWide SCSI	$199
adaptec AHA-3940/3940w	$call
FirePort 40 (by DIAMOND) ultraWide SCSI (retail)	$159
SC-200 (Symbios) fastSCSI [for ASUS mb only]	$68

DISPLAY ADAPTERS

#9 Motion 771 PCI w/2MB VRAM	***$89***
#9 Imagine 128 PCI 4MB/8MB	$479/629
ATI 3-D Expression PCI 2MB EDO	$75
ATI 3-D Expression PCI+PC2TV 4MB EDO	$105
ATI Winturbo PCI w/2MB VRAM MPEG	$165
ATI all-in wonder TV/Video 2/4MB PCI	$Call/239
miroMEDIA 3D PCI 2md EDO + TV Out	$49
MGA Matrox Mystique 2/4MB SGRAM PCI	$89/135
MGA Matrox Millenium 2/4MB WRAM PCI	$149/199
ORCHID Kelvin 64 PCI 1MB /Video	$79/95
STB Lightspeed 128 Video PCI 2.25MB MDRAM	$99
S3 Trio64 PCI SVGA (by ExpertColor) 1MB EDO	$32
Stealth 64 PCI Video 2001 1MB DRAM	$65
Stealth 3-D 2000 2MB/4MB EDO RAM	$75/99
Stealth 3-D 2000 PRO 2MB (35ns) EDO RAM	$95
Stealth Video 2500 PCI 1MB EDO	$39
Stealth 3-D 3000 2MB/4MB EDO VRAM	$119/169
Stealth 64 Video PCI 2MB/4MB VRAM	$125/165

HARD DRIVES

Fujitsu 1.27/1.7gig EIDE	$159/169
Fujitsu 2.1/2.5gig EIDE	$189/209
JTS 1.08/1.2/1.6	$Call
JTS Champion 2.0Gig EIDE (C2000-2AF)	$162
JTS Champion 3.0Gig EIDE (C3000-3AF)	$185
MAXTOR 1.7/2.1Gig EIDE 11ms	$169/179
MAXTOR 5.1Gig EIDE	$369
Micropolis 9Gig UltraWide	$Call
Quantum 1.27Gig EIDE (Bigfoot)	$162
Quantum 1.6Gig EIDE 12ms 128k	$176
Quantum 2.1/3.2ig EIDE 12ms 128k	$189/215
Quantum 3.2Gig Ultra- DMA IDE/SCSI	$275
Quantum Atlas 2Gig Wide SCSI	$Call
Quantum Atlas 4.3Gig Wide SCSI	$Call
Seagate 1.7/2.1Gig EIDE	$169/179
Seagate 2.5/3.2Gig EIDE	$215/279
Seagate 4.2Gig EIDE (ST-34250A) 10.5ms	$Call
Seagate 2.1Gig UltraWide SCSI	$Call
Seagate 4.3Gig UltraWide SCSI	$799
WD 1.27/1.6Gig EIDE 10ms	$162/172
WD 2.0/2.5Gig EIDE 12ms	$189/209
WD 3.1/4.0Gig EIDE 12ms	$229/289

MICE

Logitech Serial 2-Button (M34)	$11
Logitech Serial MouseMan Cordless	$29
Logitech MouseMan combo 3-Button/Cordless	$23
Logitech TrackMan Vista	$35
Logitech TrackMan Marble (combo)	$79
Logitech 3-Button bus mouse	$44
Logitech WingMan Extreme Joystick	$29
MS compatible 2-Button Serial	$7

MODEMS

Internal 14.4k Faxmodem w/Voice Mail	$25
Jaton (made in USA) 33.6k Int. Faxmodem	$62
MAXTECH 33.6k V.34 Faxmodem/with voice	$85/99
Modem Blaster 28.8k Int. Faxmodem	$62
Motorola 28.8k faxmodem Int./Ext.	$139/call
miro Media Online 33.6k + SC w/wave + voice	$75
Practical Peripheral 28.8k Internal Faxmodem	$159
SupraExpress 33.6k PnP w/Voice Int: (retail)	$59(85)
Supra Netcommander ISDN Int.	$259
USR Sportster 33.6k V.34 /voice Int (upg. 56K)	$93/105
USR Sportster 28.8k V.34 voice Ext	$129
USR Sportster 56k Int/Ext (retail)	$179/199

MOTHERBOARDS

Abit 430VX/TX chipset 512k (TX is jumperless)	$79/115
ASUS VX97 430VX Intel® chipset 512k	$105
ASUS 430VX/HX Intel® chipset 512k	$133/139
ASUS 430TX Intel® chipset 512k TX97/X	$Call
ASUS 430TX Intel® chipset 512k TX97-E w/fan	$189
ASUS 430TX Intel® chipset 512k TX97-XE w/fan	$185
ASUS 440FX Intel® chipset Pro	$Call
A.I.R. 430HX Intel® chipset 256K	$155
A.I.R 430HX w/ultraWide SCSI built-in 512k	$329
Intel® Marl 430HX 256k	$115
Intel® Tucson 430HX + yamaha SRS sound 256k	$155
Intel® Venus 440FX PRO	$165
Intel® Providence Dual PRO + SC & NIC	$575
Intel® Portland Pentium II + Yamaha sound	$285
Supermicro P5STE (made in USA) 512K	$159
TMC 430TX (TI5TT) Intel Chipset 512k	$155
TMC 440FX (TI6NFK) Pentium Pro/Pentium II	$249
TMC 440FX (AI6NF) Pentium Pro AT	$195
TMC 440FX (TD6NF) Dual Pentium Pro ATX	$299
Tyan TITAN Turbo - Triton TX (AT or ATX)	$149
Tyan Tomcat I 430HX 512k	$165
Tyan Tomcat III 430HX Dual 512k	$215
Tyan TITAN PRO 440FX Dual PRO ATX/AT	$299/339
Tyan TAHOE AT -S1680S Pentium II	$319
Tyan TAHOE 2 ATX -S1682D Dual Pentium II	$375

MONITORS

Iiyama Vision Master Pro 17 (1600x1280) .25AG	$759
Iiyama Vision Master Pro 21 (1600x1200) .30AG	$1599
Hyundai 14" NI .28 (1024x768) Digital	$185
Hyundai 15" NI .28 (1280x1024) Digital (3-year)	$265
Hyundai 17" NI .28 (1280x1024) Digital (3-year)	$475
MAG DX1595 15" .28 NI (1024x768) Digital	$365
MAG DX1795 17" .28 NI (1280x1024) Digital	$609
NEC (ALL Models, Please Call)	$CALL
Sampo 14" NI .28 (1024x768) Digital control	$165
Sampo 15" NI .28 (1280x1024) Digital control	$245
Sampo 17" NI .28 (1280x1024) Digital control	$465
Smile 17" NI .28 (1280x1024) Digital OSD	$465
SONY 100SX 15" (1280x1024) .25 Digital	$369
SONY 200SF ii 17" (1280x1024) .25 Digital	$739
SONY 17se2 17" (1600x1280) .25	$899
ViewSonic 15GS (1280x1024) .28 NI	$345
ViewSonic G771 (1280x1024) .27 NI	$575
ViewSonic 17GA (1280x1024) .27 NI w/Spkrs	$665
ViewSonic 17PS (1600x1280) .26 NI	$689
ViewSonic PT770 (1600x1280) .25 NI	$779
ViewSonic PT775 (1600x1200) .25AGP 17"	$Call
ViewSonic PT813 (1600x1200) .28AGP 21"	$Call
ViewSonic P810 (1600x1200) .26 NI 21"	$Call
ViewSonic P815 (1800x1600) .26 NI 21"	$Call

NETWORKING

3COM EtherLink III TPO/TP/COMBO	$69/83/92
3COM EtherLink III PCI 10/100Mbps	$79
Intel® EtherExpress Pro10+ ISA	$85
Intel® EtherExpress PRO/100 PCI	$95
5-port HUB	$65
LanPro 16-port HUB	$199
Maxtech 16-port HUB	$229
NE-2000 16-bit TPO/COMBO ISA PnP	$25/29
SMC EtherLink III TPO/TP/COMBO	$69/89/109

PRINTERS

Epson Stylus Color 600	$299
Epson Stylus Color 800	$429
HP Inkjet 400	$169
HP Inkjet 694/820Cse, 6.5ppm (black), 4ppm (color)	$299/299
HP Inkjet 870Cse, 8ppm (black), 4ppm (color)	$389
HP LaserJet 6L eXtra 600dpi, 6ppm, 1MB Memory	$389
HP LaserJet 6P 600dpi, 8ppm	$739
HP LaserJet 6MP 600dpi, 8ppm PostScript	$899

SCANNERS & OCR READERS

HP ScanJet 5p Scanner	$399
HP Scanjet 4c Scanner	$899
Musktek ScanMaker E6	$369
PaperPort Vx (Visioneer)	$199

SOUND CARDS

ESS 1868 16-bit 3D EIDE int.	$19
ExpertColor 3-D 16-bit (OPTI 931) full duplex	$19
miro Media Online SC + Wave + 33.6k voice	$75
PowerSound Vibra 16 w/FM Radio EIDE int.	$72
SoundWave 32Pro +SCSI w/WaveBooster	$125
Sound Blaster 16 MCD w/ASP (non-PnP)	$79
Sound Blaster 16 PnP/32 PnP 3-D	$45/85
Sound Blaster AWE32 3D PnP (retail)	$159
Sound Blaster AWE64 Value (retail)	$95
Sound Blaster AWE64 Pnp (oem)	$189
Sound Blaster WaveBlaster II (retail box)	$75
TeleVideo SoundWave SRS w/Wave + Mech II	$99

TAPE BACKUP

Colorado T3000 1.6/3.2Gig Travan	$199
FC-20 controller for T1000/T3000	$68
Colorado T4000 4Gig/8Gig SCSI-2	$369
Conner 2/4Gig IDE/SCSI internal w/tape	$225
Iomega Ditto 2000 2.0Gig (Int/Ext)	$169/199
Iomega Ditto 3200 3.2Gig (Int/Ext)	$219/270
Iomega Zip IDE(oem)/parallel/SCSI	$149
Iomega Jaz Internal(oem)/External	$299/399
Iomega Jaz Traveler (Parallel to SCSI adapter)	$49
Zip Disk (100MB)	$14
Jaz cartridge (1gig)	$109
SyJet 1.5Gig Removable <12ms Ext.	$459

TRUECOMP
AMERICA COMPUTER CENTER
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SuperMac
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PowerPC 603e 240Mhz processor w/256k 2.1gig IDE, 24mb EDO, 8X SCSI cd rom 33.6k int. fax/data/voice modem, 16-bit SC (1-Year On-Site warranty on Parts & Labor)
$1695

3M
TR-3 Blank Cartridge for Colorado T3000
$24.95
Limit 5 per cust

Mon-Fri 9:30AM-7:00PM
Sat 10:00AM-5:00PM

STARLITE

Your Mobile Notebook Specialist!

COMMON FEATURES:

Microsoft Windows 95 CD w/Manual, 104 Win95 Keyboard, 3.5" 1.44MB Floppy Drive, Grolier Enc. 97, Serial Mouse/Pad, one year Part and Five years Labor Warranty. Upgrades: Microsoft office 97 pro +$169, Windows NT 4.0 Workstation +$99, HP 3.2GB TBU +$169, Iomega Zip 100MB INT/EXT. +$129/179, MS Windows NT 4.0 Server 5/10 +$469/629. Three years On-site Service Call.

STAR #1
Home Systems

Common Features listed above plus:
Intel Triton VX Chipset PnP BIOS
256K Pipeline Burst Cache
16MB of EDO RAM (32MB +$59)
1.2GB EDIE Hard Drive (2GB +$29)
Trident PCI 64 2MB DRAM
14" 1024x768 .28 NI Monitor (15" +$79)
8X IDE CD-ROM Drive
16 Bit Sound Card
33.600 Fax/Modem
Amplified 60w Speakers
Mini Tower Case w/230 PS

Intel Pentium®

150MHz	**$879**
166MHz	**939**
200MHz	**999**
166MHz MMX	**939**
200MHz MMX	**1059**
233MHz MMX	**1199**

STAR #2
Office Systems

Common Features listed above plus:
Intel Triton TX Chipset PnP BIOS
512K Pipeline Burst Cache
32MB of EDO RAM
2GB EDIE Hard Drive (3GB +$49)
Matrox Mystique PCI 2MB SGRAM
15" 1280x1024 .28 NI Monitor
12X IDE CD-ROM Drive
16 Bit 3D Sound Card
33.600 Fax/Modem
Amplified 60w Speakers
MID Tower Case w/230 PS

Cyrix 6x200+MHz	**$1129**
Cyrix M2-166+MHz MMX	**1199**
Cyrix M2-200+MHz MMX	**1239**
AMD K6-166MHz MMX	**1199**
AMD K6-200MHz MMX	**1299**
AMD K6-233MHz MMX	**1419**

STAR #3
Dream Systems

Common Features listed above plus:
New Intel Triton TX Chipset PnP BIOS
512K Pipeline Burst Cache
32MB of EDO RAM
4GB EIDE Hard Drive
Diamond Stealth PCI 3D 64 4MB DRAM
17" 1280x1024 .28 NI Monitor
16X EIDE CD-ROM Drive
Amplified 240w Speakers
Sound Blaster 16 Bit PnP
US Robotics 33.600Fax/Modem
Mid Tower Case w/250 PS

Intel Pentium®

200MHz	**$1699**
166MHz MMX	**1629**
200MHz MMX	**1739**
233MHz MMX	**1899**

STAR #4
Pentium-II Systems

Common Features listed above plus:
New ASUS Intel Triton Chipset PnP BIOS
512K Pipeline Burst Cache
64MB of EDO RAM
4GB EIDE Hard Drive (5GB +$89)
Matrox Millennium 4MB WRAM
Sony 200SX 17"1280x1024 .25 NI Monitor
24X EIDE CD-ROM Drive
Amplified 260W Speakers
Sound Blaster AWE 64Bit PnP
US Robotics 56Kx2 Fax/Modem
ATX mid Tower Case w/250 PS

Intel Pentium® II

233MHz	**$2899**
266MHz	**3069**

THIS MONTH'S SPECIALS:

1.2GB EIDE HD	$139
2.0GB EIDE HD	$155
33.6 Fax Modem w/Voice	$40
TV & FM Radio Card	$169
VGA to TV Converter	$79

MEMORY

4MB/8MB/16MB/32MB NP	$22/35/59/119
4MB/8MB/16MB/32MB EDO	22/35/59/115
4MB/8MB/16MB/32MB BP	32/49/79/149

CPUs

Intel Pentium® 150/166/200MHz	$109/199/229
Pentium® 166/200/233MHz MMX	159/269/419
Pentium® Pro 200MHz	499
Pentium® II 233/266	659/769
Cyrix P6-200+MHz	85
Cyrix M2-166+MHz MMX	149
Cyrix M2-200+MHz MMX	179
AMD K6-166MHz MMX	139
AMD K6-200MHz MMX	229
AMD K6-233MHz MMX	329

MOTHERBOARDS

486DX4 100-133MHz 256K EIDE I/O	$69
Triton VX 256K PCI 75-200MHz	69
Triton VX 512K PCI 75-200MHz	79
Triton TX 512K PCI 75-233MHz	109
ASUS Triton VX97 512K 75-200MHz	99
ASUS Triton HX P55T2P4 512K 75-200MHz	139
ASUS Triton TX97 XE 512K 75-233MHz	159
ASUS Triton TX97 E 512K 75-233MHz	159
ASUS KN97 Pentium® II 233-266MHz	269
Intel Marl II 512K 75-200MHz	119
Intel Tucson 512K 75-200MHz w/16 bit Sound Card	169
Intel Venus Pro 150MHz-200MHz	149
FIC Triton VX 512K 75-200MHz	89

VIDEO CARDS

Trident 9680 64 PCI 1/2MB MPEG	$25/35	Stealth 2001 64 PCI 1MB MPEG	$69
Trident 9680 64 PCI 1/2MB MPEG w/TV Port	25/35	Stealth 3D 2000 64 PCI 2MB/4MB	79/99
ATI: VideoBoost PCI 1MB/2MB	49/59	Stealth Video 64 PCI 2MB/4MB VRAM	109/159
Video Xpression PCI 2MB	69	Stealth 3D 3000 64 PCI 2MB/4MB VRAM	109/149
3D Pro Turbo PC2TV 4MB/8MB	135/175	MATROX: Millennium PCI 2MB/4MBWRAM(OEM)	139/179
Winturbo 64 2MB/4MB VRAM PCI	139/219	Millennium PCI 2MB/4MBWRAM(Retail)	189/259
3D Xpression PCI 2MB/4MB SDRAM	139/165	Upgrade 2MB/4MB/6MB	79/179/189
3D Xpression+ PC2TV4MB	169	Mystique PCI2/4MB SGRAM (OEM)	89/109
DIAMOND: Stealth Video 2500 64 PCI 1MB/2MB	35/45	Mystique PCI2/4MB SGRAM w/Game	119/139

MULTIMEDIA

16 Bit Sound Card	$17	16X IDE CD ROM	$89
Sound Blaster 16Bit PnP	49	24X IDE CD ROM	119
Sound Blaster AWE 32	89	60W Speakers	15
Sound Blaster AWE 64/Gold	99/189	240W Speakers	39
8X IDE CD ROM	69	260W Speakers	49
12X IDE CD ROM	79	Sub-Woofer Speakers	69
		Yamaha Speakers M7/M15	35/59

FAX/MODEM

33.6 Fax Modem Win95 /Voice INT	$59	US Robotics	
33.6 Fax Modem Voice INT	69	Sporster 33.600 INT/Voice OEM	$99/109
56K INT	129	Sporster 33.600 INT/Ext Retail	129/139
PCMCIA 33.600	109	Sporster 56K INT/Ext	159/179

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Get a 3-in-1 Notebook for Travel, Home, or Office

JTS EIDE 2.0GB HD $159!

COMMON FEATURES:

Support Pentium® 233MHz MMX, 256KB L2 Pipeline Burst Cache, 3.5" 1.44MB floppy Drive, NIMH Battery, Integrated 16 Bit Sound Card w/Speakers, IrDA 1.0 Standard Compliant, Touchpad, Win95 Keyboard, Smart 2nd Battery, Microsoft Windows 95 CD w/Manual. AC Adapter, Carrying Case, CardBus & Zoomed Video. One year Parts and Three years Labor Warranty.

CHEMBOOK 2600 SERIAL

Common Features listed above plus:
32MB of RAM Up to 128MB
Removable 1.44GB HDD to 3GB
12.1" Dual Scan & 12.1" TFT SVGA
PCI 64 2MB EDO Video RAM
800x600x 16M True Colors
10X EDIE CD ROM Drive
2 Smart Bays, Support 2nd & 3rd HDD
2Type II & 1 Type III PCMCIA Slots
16 Bit Full Duplex, 3D Sound Card
Optional Built in 33.6 Modem (+$139)
AC Inside Adapter/Hot Docking
Port Replicator/Li-Ion Battery +$169/119

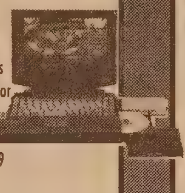
	12.1" Dual Scan	12.1" Active Matrix
P5-200MHz	$1999	2549
P5-166MHz MMX	1949	2499
P5-200MHz MMX	2069	2619
P5-233MHz MMX	2269	2819

CHEMBOOK 6800 SERIAL

Common Features listed above plus:
256K L2 Pipeline Burst Cache
16MB of RAM Up to 72MB
Removable 1.08GB HDD to 2.1GB
12.1" SVGA DSTN & TFT Active Matrix
PCI 64 2MB EDO Video RAM
800x600x 16M True Colors
11X EDIE CD ROM Drive
3 Type II & 1 Type III PCMCIA Slots
Port Replicator/Li-Ion Battery +$149/119

	12.1" Dual Scan	12.1" Active Matrix
P5-166MHz	$1799	2349
P5-200MHz	1859	2399
P5-166MHz MMX	1799	2349
P5-200MHz MMX	1929	2479

CHEMBOOK 9750 SERIAL



Common Features listed above plus:
32MB of RAM up to 80MB
Dual Scan/TFT SVGA/TFT XGA
Removable 1.44GB HDD to 2.1GB
PCI 2MB Video RAM
12.1" TFT up to800x600X16M True Colors
13.3" XGA up to 1024x768 64K High Color
Removable 10X CD ROM
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Port Replicator/Li-Ion Battery +$169/119
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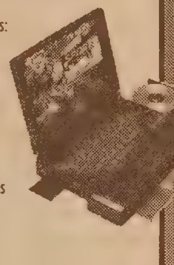
P5-200MHz	$1999	2529	.3249
P5-166MHz MMX	949	.2479	.3199
P5-200MHz MMX	2069	.2599	.3319
P5-233MHz MMX	2269	.2799	.3519

CHEMBOOK 6800XL SERIAL



Common Features listed above plus:
512K Pipeline Burst Cache
64MB of RAM Up to 80MB
Removable 2GB Hard Drive
13.3" XGA TFT Active Matrix
PCI 128 Bit 4MB Video RAM
11X EIDE CD ROM Drive
One Type II & Type III PCMCIA Slots
16 Bit Full Duplex, 3D Sound Card
Removable Li-Ion Battery
PCMCIA 33.600 Fax/Modem

P5-166MHz MMX	$3969
P5-200MHz MMX	4099
P5-233MHz MMX	4299

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	14" mono VGA	$99
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	CM2112MU 21" 1600X1200 .26	1949
	GX-21 21" 1600X1200 .28	1739
	UX-6821 21" 1600X1200 .22	2199
IIYAMA	MF-8515G 15" 1280X1024 .28	309
	MF-8617E 17" 1600X1280 .26	549
	MF-9017E 17" 1600X1280 .25	639
	MF-8221E 21" 1600X1280 .22	1269
	MF-9021E 21" 1600X1280 .30	1329
	MF-8721E 21" 1800X1400 .22	1399
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	17" DJ700 1280x1024 .26	529
MAG	17" DX700T 1280x1024 .25	$599
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	17" FX-C6 .26/TX-C7S .25/T2 .25	779/969/879
	20" TX-D7S .25	1629
	21" FX-E7 .28	1599
NEC	XV15+/17+/XP17	449/759/999
	M500/M700/P750	369/739/839
	E1100/P1150	1369/1539
SONY	15" 100SX1/SF2 .25	329/369
	17" 200SX1/SF2 .25	619/709
	20" 300SF .31	1399
	20" 20SE2T .25	1759
VIEWSONIC	E641 14" 1024x768 .28	209
	E655 15" 1024x768 .28	279
	15GS 15" 1280x1024 .28	319
	15GA15" 1280x1024 .27 w/speakers	349
	17EA 17" 1280x1024 .28 w/speakers	519
	17GS 17" 1280x1024 .28	529
	17GA 17" 1280x1024 .27 w/speakers	579
	GT770 17" 1280x1024 .25	619
	PT770 17" 1600x1280 .25	649
	PT775 17" 1600x1280 .25	729
	G810 21" 1600x1280 .25	1229
	PT81021" 1600x1280 .25	1419
	PT81521" 1800x1440 .25	1459
	VP140	2298

KEYBOARD

MITSUMI 104 Win95 keyboard	$15
MS Natural Win95 Keyboard	69
Keytronics 104 Win95 Keyboard	15

MOUSE

Serial Mouse	6
MS Serial Mouse	29
Logitech Serial Mouse	17
Logitech PS2 Mouse	19

CASE/Controller

Mini/Desktop Tower 230W	$29/35
MED/Full Tower 250W	45/65
ATX Mid Tower 235w	79
ATX Full Tower 235w	99
PCI IDE I/O	19
Adaptec 2940/2940UW SCSI PCI	169/219

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Colorado

T-3000T 3.2GB Int. w/Tape	$169
T-4000T 8.0GB Int. w/Tape	349

Iomega

Zip Drive 100MB Ext/INT	$149/119
Jaz Drive 1GB Ext/Int	359/439

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	1.44MB/1.2MB Floppy	$25/45
FUJITSU:	1.2/1.7GB/2.1GB IDE	159/169
	2.1GB/2.5GBIDE	189/209
	4GB SCSI II/WIDE SCSI	659/719
	9GB SCSI	1149
JTS:	1.3GB/2GB IDE	149/159
	2.5GB/3GB IDE	179/199
MAXTOR:	1.7GB/2.1GB/5GB IDE	179/189/379
QUANTUM:	1.2GB/2GB/3.2GB IDE	179/199/239
	4.3GB/6.4GB IDE	319/599
	3.2GB SCSI	319
QUANTUM:	4GB U-WIDE SCSI-	$749
SEAGATE:	1.7GB/2.1GB/3.2GB IDE	179/189/239
	4GB SCSI/U-WIDE SCSI	749/789
	9GB SCSI/U-WIDE SCSI	1309/1339
TOSHIBA:	(NOTEBOOK) 1.08GB/1.44GB 2.5	199/229
	2.1GB/3GB	349/569
WESTERN DIGITAL:	1.2GB/1.6GB/2.1GB	179/189/209
	2.5GB/4GB	219/319
	4.3GB SCSI/U-WIDE SCSI	739/769

NETWORKS

16 Bit Ethernet Card ISA (Combo)	$19
32 Bit PCI Ethernet Card	25
5-Port Ethernet Hub	39
8-Port Ethernet Hub	49
16-Port Ethernet Hub	99
24-Port Ethernet Hub	229

3COM

3C509 Etherlink III PCI TP/Combo	59/79

3COM

3C900 Etherlink III PCI TP/Combo	$79/89
3C509 TX PCI 10/100 TP	119

Intel

EtherExpress 16 Coax/TP/Combo	89/79/89
EtherExpress Pro 10 Combo	99

Kingston

Etherx 10/100 Fast PCI	75
Etherx 10BT PC Card	99

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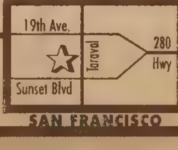

Networking

continued from page 62

formance level I would expect from a Pentium-75 system.

Of course simply upgrading your CPU does not give you the full-on performance of a true Pentium system, but it can come close. One additional upgrade I would suggest you do at the same time is to upgrade the system's memory to 16MB. Most 486 systems have just 4 to 8MB of RAM, which is not really enough for today's computing needs. Since upgrading the system RAM is both easy and economical to do, it makes sense to do both at the same time.

I like these 486 upgrade kits. They are inexpensive and easy to install, and allow network managers to provide upgraded performance to their computer users with only a minimal interruption of their work week. Best of all, it does not matter how old or slow the old CPU was; these upgrades let even an old, slow 486-33 computer system perform at close to Pentium speeds. That is a real winner for everyone—user, network manager, and even the bean-counters upstairs. ■

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> ***I tried out two different upgrade packages,***
> one a pre-assembled upgrade from Evergreen Technologies, the other I built myself using off-the-shelf components from a local electronics superstore.

RESOURCES:

Evergreen Technologies
(541)757-0934
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Evergreen Technologies Product Information:
URL: *http://www.evertech.com/products.html*

Kingston Technology
1-800-337-8410
URL: *http://www.kingston.com/*
Kingston TurboChip 133 Product Information:
URL: *http://www.kingston.com/prod/procesor/index.htm*

Advanced Micro Devices
1-800-538-8450
URL *http://www.amd.com/*
Advanced Micro Devices 5x86 Product Information:
URL: *http://www.amd.com/products/cpg/5x86/20030a.html*

PENTIUM 166 MHz Multimedia SYSTEM
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Mini Tower Case
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P5 Motherboard 256K & Intel P5-166 CPU
$199

4 MB PCI S3 Virge SVGA Card
$46

Yamaha 16-Bit Sound Card
$15

VIDEO CARDS

OEM	
1MB PCI S3 V64+	$25
1MB ISA ET4000	.20
1MB VLB CL5429	.20
4MB PCI S3 Virge	.46
DIAMOND	
Stealth 3000 4MB VRAM	.139
Monster 3D 4MB VRAM	.125
Fire GL1000 *MB SGRAM	.266
MATROX	
Millennium 4MB	.170
Millennium II 4MB	.199
Millennium II 8MB	.298

SOUND CARDS

OEM	
Opti/ESS/Yamaha Chipset 16-Bit	$15
SOUNDBLASTER	
16-Bit PnP	.45
16-Bit PnP w/IDE	.64
AWE32 WAVE PnP	.73
AWE 64	.98
WAVE64 GOLD w/4MB	.180

MULTIMEDIA SYSTEM w/MONITOR & FAX/MODEM: (also Includes Sound Card, 1.44 MB FDD, 104 Keyboard, Mouse, Speakers)

PRICE	SYSTEM	Model/CPU	RAM	HDD	CD-ROM	MODEM	MONITOR	VIDEO CARD
$499	Beginner/Station	5X86/133	8 MB	420 MB	12X	14.4 K	14" Used	1 MB
799	Home/Student	P5/166	16 MB	1.3 GB	12X	14.4K	14" SVGA	1 MB
999	H/S Office/Engineer	P5/200 MMX	32 MB	2 GB	16X	33.6K	14" SVGA	2 MB
1349	H/S Office/Engineer	P5/233 MMX	32 MB	3GB	24X	56K	15" SVGA	4 MB
1599	Power Server	PRO/200	32 MB	6 GB	16X	33.6K	14" SVGA	1 MB
2499	Super Graphic	PII/266	64MB	4 GB	16X	33.6 K	17" SVGA	4 MB

CPU's & MEMORY

Intel CPU	
Pentium	CALL
Pentium II	CALL
Pentium Pro	CALL
AMD CPU	
K5	CALL
K6	CALL
CYRIX	
486 DX2/66	$25
486 DX4/100	.27
6x86	CALL

RAM

1MB/30-Pin	$5
4MB/30-Pin	.28
8MB/72-Pin	CALL
16MB/72-Pin	CALL
32MB/72-Pin	CALL

MOTHERBOARDS

FIC	
486 VLB/128K/3-VLB up to DX4/120	$35

FIC MOTHERBOARDS (cont)

Pentium/256K/4-PCI/3-ISA VIA Chipset, up to 200MHz	$59
ARIST	
Pentium 256K/512K Intel Chipset/3-PCI/3-ISA	.66/69
Pentium Pro EIDE-IO, up to 200MHz	.99
ADBI	
Pentium 512K/Jumperless Intel Chipset/3-PCI/3-ISA	$85

ASUS	
TX/VX 97 Pentium, 512K up to 200MHz	$145/99
TYAN	
F1684 Pentium II, up to 300MHz/ATX	.240
INTEL	
Providence Dual Pentium Pro SCSI/LAN/Audio 2MB VRAM/ATX	.619

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2.1GB	.155
3.1GB	.20
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3.1GB	.215
4.0GB	.2269
SEAGATE	
4.3GB Ultra SCSI, 8ms	.999
6.4GB	.450

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Colorado 3.2GB	$245
SEAGATE 3.2GB	.185

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SONY 2x6 SCSI	.451

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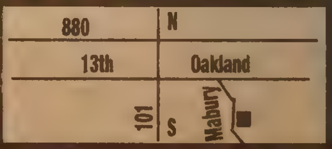

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4 Workstations
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- Intel 10/100 Network Card
- 15" SVGA Monitor
- PCI SVGA Card
- Windows 95

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- **Intel Pentium® Pro 200MHz CPU**
- **Intel "Venus" Motherboard**
- Pentium® Pro Cooling Fan
- 64MB RAM
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- 16X CD-ROM Drive
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Viewsonic 20" V20G-2	1199
Impression 17" 7	479

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US Robotics 33.6 Int OEM	$99
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Sound Blaster 16	59

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AFS2000D 28.8 PPP	$3995
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AFS2000I ISDN	4995
AFS2000T Frame Relay w/CSU/DSU	7995

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TELECOMMUTING • BY ROBERT MOSKOWITZ

The Ultimate Telecommuter

One Person's Demonstration Of Working On-The-Go

The ultimate telecommuter of today is probably Brian Alexander. He's the newspaper and magazine writer who is traveling North America on his Yamaha motorcycle, all tricked out with a portable notebook computer, a dial-up email connection, a digital camera, a wireless fax/modem, and a cellular telephone. His purpose: To demonstrate that you can accomplish a great deal of important work perfectly well over long periods of time without sitting behind the same desk in the same office every day.

> **His biggest struggle** has been the personal one between his impulse to take extra time to enjoy the various locations he's visiting and **his recognition of the need to meet his deadlines and accomplish all of his work.**

As a full-fledged telecommuter "extraordinaire," Mr. Alexander has been able to conduct interviews over the telephone, type notes and reports on his computer, take pictures and include them in with his reports, print and fax his complete documents to others, and exchange timely information via phone calls and email with people working in his employer's conventional office.

Not only is Mr. Alexander traveling as he works, but as part of his demonstration of telecommuting effectiveness he is in fact easily able to conduct telephone conversations and exchange information with people all around the country and across time zones. He's proving that it's possible for telecommuting to take place very effectively, even when one non-techie must do business with another non-techie.

The only problem in all this has been that traveling away from main highways into rural America sometimes runs him out of the cellular telephone coverage umbrella that's nearly ubiquitous in urban areas today. Even within urban areas, he occasionally finds himself in a distant cell that has no "roaming" contract with his particular cell-phone company. But even in such dire circumstances, Mr. Alexander is not completely out of touch. During the day he simply uses pay phones for voice communications, and after settling in for the night he relies on his hotels' dataports for email, and on its fax machines for hardcopy transfers.

One of the biggest surprises for those involved in this experiment (sponsored by Canon Computer Systems) turned out to be that Mr. Alexander, no technical whiz, has suffered so few surprises. So far, his biggest struggle has been the personal one between his impulse to take extra time to enjoy the various locations he's visiting and his recognition of the need to meet his deadlines and accomplish all of his work.

While no one is suggesting that everyone presently working in fixed offices should immediately throw a computer and wireless modem into their backpack and head out into the hinterlands, it's clear from this demonstration—as well as from decades of experience—that telecommuters can overcome practically any obstacle presented by distance and logistics. It's now clear that unless there's a specific reason to spend time in the same office with co-workers, most of us can work just as productively without wasting the time, effort, and resources required to travel to a central location.

Reluctance To Support Telecommuting—1997 Style

One of the biggest obstacles to the growth of telecommuting has long been the reluctance of first-level supervisors, and sometimes middle managers, to support telecommuting among the groups for which they are responsible.

In the early days of telecommuting, these people simply claimed to be uncertain that a telecommuter would actually do any useful work if permitted to remain away from the office during business hours.

Today, this rather simplistic reaction against telecommuting has given way to a more modern, more sophisticated, and more complex set of reasons why the same set of first-level supervisors, and sometimes middle managers, should still be cautious about throwing their support behind telecommuting.

Let's take a look at what they're saying, and at some reasonable, slightly more enlightened responses:

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- VX Pro MB with 512K cache
- Pentium® 133MHz w/ cooling fan
- 16 MB 60ns EDO RAM
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- PCI SVGA card w/ 1MB RAM
- 3D 16-bit sound card
- 33.6 fax modem w/ voice (rockwell chipset)
- Mini tower case w/ 230W power supply
- 3-button serial mouse
- Win95 105-key keyboard
- P60W multimedia speakers
- Windows 95 installed
- 1-year warranty (48-hr hot swap) on parts and 5 years labor

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Pentium® 166MHz	**$749**
Pentium® 166MHz MMX™	**$749**
Pentium® 200MHz	**$808**
Pentium® 200MHz MMX™	**$849**

Pentium® MMX™ System

- Intel® 430VX chipset MB with 512K cache
- Pentium® 166MHz MMX™ w/ cooling fan
- 32MB 60ns EDO RAM
- 2.5GB EIDE hard disk drive
- 1.44MB floppy disk drive
- 20X IDE CD-ROM drive
- Diamond Stealth SVGA card w/ 2MB RAM
- Sound Blaster 16-bit sound card
- 33.6 fax modem w/ voice (rockwell chipset)
- Mini tower case w/ 230W power supply
- 3-button serial mouse
- Win95 105-key keyboard
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Pentium® 200MHz MMX™	**$981**
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- Matrox Mystique 3D with 4MB SGRAM
- 16-bit Sound Blaster compatible sound card
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- ATX mid tower case w/ 235W power supply
- Microsoft® 3-button serial mouse
- Win95 ergonomic natural keyboard
- P60W multimedia speakers
- Windows 95 installed
- Office 97 Professional Suite
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Pentium® 200MHz MMX™	**$1139**
Pentium® 200MHz	**$1180**
Pentium® 233MHz MMX™	**$1323**

NT Server/ Workstation

- Intel® 440FX chipset Pentium® Pro MB
- Pentium® Pro 200MHz w/ cooling fan
- 32MB 60ns EDO RAM
- 3.2GB EIDE hard disk drive
- 1.44 MB floppy disk drive
- 20X IDE CD-ROM drive
- Trident 9680 with 1MB SVGA
- 3COM 10/100 base T ethernet card
- ATX mid tower case w/ 235W power supply
- Microsoft 3-button serial mouse
- Win95 105-key keyboard
- MS NT Sever 4.0 w/ 5 user licenses
- 1-year warranty (48-hr hot swap) on parts and 5 years labor

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Windows NT 4.0 Workstation

$1319

AMD K5/ CYRIX 6X86

- VX Pro MB with 512K cache
- AMD K5 100MHz w/ cooling fan
- 16MB 60ns EDO RAM
- 1.2GB EIDE hard disk drive
- 1.44MB floppy disk drive
- 20X IDE CD-ROM drive
- PCI SVGA card w/ 1MB RAM
- 3D 16-bit sound card
- 33.6 fax modem w/ voice (rockwell chipset)
- Mini tower case w/ 230W power supply
- 3-button serial mouse
- Win95 105-key keyboard
- P60W multimedia speakers
- Windows 95 installed
- 1-year warranty (48-hr hot swap) on parts and 5 years labor

$652

AMD K5 P133MHz	**$689**
AMD K5 P166MHz	**$709**
Cyrix 6X86 P166+	**$685**
Cyrix 6X86 P200+	**$699**

AMD K6 MMX™ System

- Asus 430TX chipset MB with 512K cache
- AMD K6 166MHz MMX™ w/ cooling fan
- 32MB 60ns EDO RAM
- 2.5GB EIDE hard disk drive
- 1.44MB floppy disk drive
- 20X IDE CD-ROM drive
- Diamond Stealth SVGA card w/ 2MB RAM
- Sound Blaster 16-bit sound card
- 33.6 fax modem w/ voice (rockwell chipset)
- ATX mid tower case w/ 230W power supply
- 3-button serial mouse
- Win95 105-key keyboard
- P60W multimedia speakers
- Windows 95 installed
- 1-year warranty (48-hr hot swap) on parts and 5 years on labor

$999

AMD K6 200MHz MMX™	**$1029**
AMD K6 233MHz MMX™	**$1119**

Pentium® II System

- Intel® Portland 440FX chipset MB
- Pentium® II 233MHz w/ cooling fan
- 32MB 60ns EDO RAM
- 3.2GB EIDE hard disk drive
- 1.44MB floppy disk drive
- 20X IDE CD-ROM drive
- Matrox Mystique 3D with 4MB SGRAM
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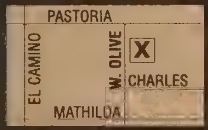

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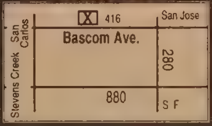

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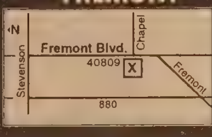

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- *"Managing telecommuters is more difficult than managing centralized workers because their flexibility limits my control over the work flow."*

There's no question that having the entire team in the office at the same time allows a supervisor to parcel out work assignments in any manner he or she pleases, to postpone specific activities at a moment's notice, and to pressure individuals to juggle their work sequences in hopes of better meeting an important deadline. All of this becomes more difficult to do when some of your workforce is located outside the central office.

But except in certain fast-paced situations like retail and other real-time service industries, any supervisor who continually juggles assignments and deadlines not only day-by-day but hour-by-hour is probably foregoing a great many opportunities to increase productivity and cut down on redundancy, waste, and unnecessary activities—all of which costs money.

Supervisors who shoot from the hip generally miss the target a lot more often than those who plan more carefully. As soon as you put in place even the simplest system for anticipating work, scheduling assignments, and coordinating activities, you automatically gain the tools you need to supervise telecommuters just as well as (if not better than) you supervise those who faithfully travel to the central office.

- *"Managing telecommuters is more difficult than managing centralized workers because their distance limits my access to them."*

This is a spurious worry. It's just as easy to contact a worker by telephone as to walk into his or her office—easier, sometimes, because you don't have to walk across the building or up a flight of stairs. If it's just a matter of telling someone the news or exchanging information to better coordinate team activities, a speaker phone and a conference call works just as well as a team meeting.

The kind of access that's missing with telecommuters—the "broadband" face-to-face interaction that most of us enjoy—can't yet be replaced via technology. But remember that most telecommuters are absent from the office only one or two days a week. So there's nearly always plenty of leeway, in a well-run operation, to have that face-to-face conversation a day or two later the same week.

- *"Managing telecommuters is more difficult than managing centralized workers because their irregular schedules and movement from place to place limits communications within my team."*

That's correct. With part of your team telecommuting there's no way to get complete results by shouting out the doorway of your office: "Everybody in the conference room. Now!"

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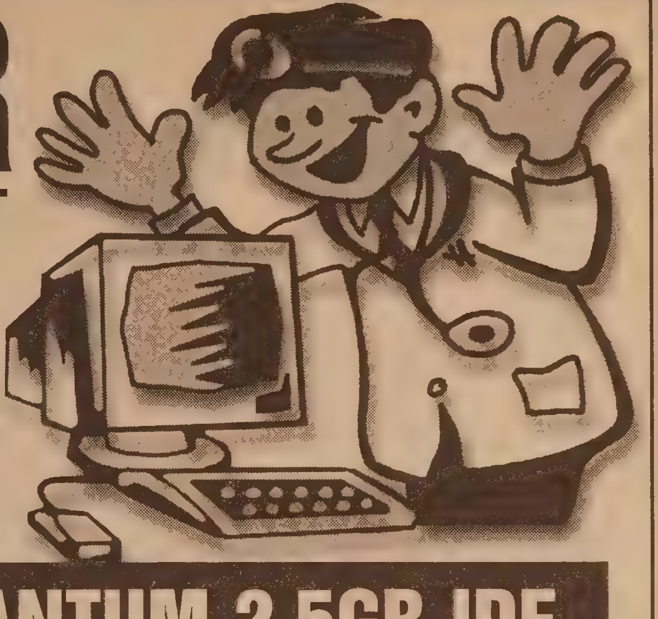

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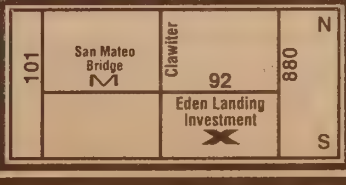

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Unless there's a specific reason to spend time in the same office with co-workers, **most of us can work just as productively** without **wasting the time, effort, and resources required to travel to a central location.**

communications systems and "follow me" phone numbers—greatly simplify the task of contacting a telecommuter on short notice.

Even more to the point, however: Why is it so important to call those "short notice" meetings? In the usual office environment, how often can they be justified? Why didn't the supervisor anticipate the "emergency" that precipitated the meeting? And if these emergencies are few and far between, is this rare eventuality a worthwhile enough reason to curtail telecommuting the rest of the time?

- *"Telecommuting threatens the organization's culture and values."*

To understand this objection, it's important to consider the values expressed in the corporate culture we're trying to preserve. Telecommuters have consistently been shown to be among the hardest working, most loyal, most productive, and most satisfied of all employees—not only when they begin telecommuting, but after years of doing it.

So what values are telecommuters really threatening?

The biggest threat that remains is probably to such feelings as camaraderie and team spirit, which might conceivably be damaged by cutting back on interpersonal contact and having individuals learn to work more self-reliantly as telecommuters. But while one might fear damage to the corporate culture, where is the proof that telecommuters actually do damage to corporate cultures? And if they do feel a little estranged from the team, isn't this more than offset by their thoroughly positive feelings and actions toward the larger organization?

- *"Telecommuting lowers the creativity and energy level within the office."*

There's absolutely no evidence supporting the notion that people who work as telecommuters cut back on their energy level or creativity on the days they travel to the centralized office. If anything, telecommuters seem to maintain a steady level on the job, but show more than their usual energy and creativity levels on the days they work outside the office. So if you do the math, you see this pattern tends to produce a net increase rather than a decrease in the team's overall energy and creativity on days when people are telecommuting.

One suspects this objection contains within it a hidden assumption: That people who work outside the office walls aren't really producing anything of value, so their energy and creativity levels don't really count. Under this assumption, having a telecommuter at home is exactly like having one less person on the job. Since this assumption holds absolutely no water, there's no point in considering it further.

- *"Telecommuting prevents my more experienced people from passing on their skills and knowledge to more junior members of the team."*

With today's growing emphasis on "human resources" as part of the core assets of any organization, there's no doubt an organization benefits greatly from the cross-pollination and professional growth that occurs when team members work together and learn from each others' skills and experience. In most circumstances, this kind of sharing and learning is at least somewhat inhibited by the physical distance between individuals working in person at the main office and individuals telecommuting in from other locations.

But it's not completely eliminated by distance. People working on the same projects or task forces naturally talk on the telephone, exchange email messages, refer to each others' notes and memos, and study each team member's final contribution to the overall effort. It's hard to imagine that two people on the same team won't learn something of value just by working with one another. And if one of them is curious and the other is highly skilled or talented, some cross pollination and growth is almost inevitable.

Even if knowledge transfers among their team members are stopped cold by physical distance, supervisors can dramatically increase the transfer rate of knowledge and experience by instituting some simple programs, such as "show and tell," "working buddies," or regular rotations among various team positions.

The real objection here may be that telecommuting won't prevent valuable experience and information passing from one team member to another, but instead that it will promote the passage of unwanted experience and information: namely the benefits of and preference for telecommuting!

Let's face it. If you're against the spread of telecommuting, it's only natural to try manufacturing some additional arguments against it by the time-honored tactic of reversing the facts of the matter. Thus, the tendency of telecommuting to spread like wildfire can be

continued on page 76

As soon as you put in place even the simplest system for anticipating work, scheduling assignments, and coordinating activities, **you automatically gain the tools you need to supervise** telecommuters just as well as (if not better than) you supervise those who faithfully travel to the central office.

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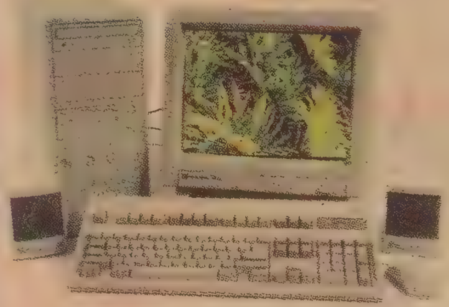

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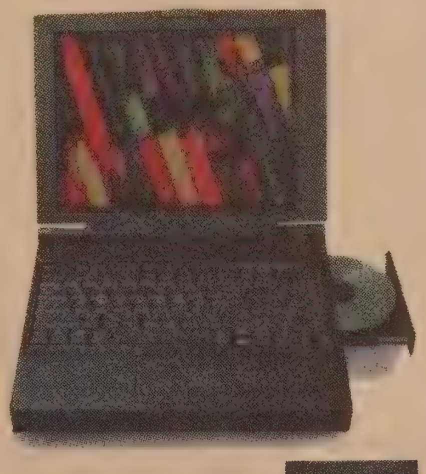

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Telecommuting *continued from page 72*

twisted 180 degrees into a worry about too little information transmission from telecommuters to everyone else.

- *"Telecommuting threatens the existence of my position, because it promotes a flattening of the organization."*

Whether you're a front-line supervisor or a mid-level manager, it's pretty clear that **modern organizational structures are beginning to require fewer buffers and overseers** between those doing the day-to-day work and those making the strategic decisions.

Now we get to the bottom-line concern. It's only natural for people to protect themselves from changes that threaten the "status quo." And telecommuting is a very big threat to the "quo" of just about everybody's "status."

Whether you're a front-line supervisor or a mid-level manager, it's pretty clear that modern organizational structures are beginning to require fewer buffers and overseers between those doing the day-to-day work and those making the strategic decisions. The very notions of "pushing decision-making down the corporate ladder" and "empowering workers" contain within them the seeds of destruction for positions that have mainly been responsible for passing information up, and decisions back down, the corporate hierarchy.

Telecommuting obviously constitutes a large part of the revolutionary trend toward flatter, smaller organizations. And it threatens not only the front-line supervisor and his or her boss, but the power and prestige of the people in charge of corporate mainstays like hiring and firing, managing facilities, and providing support services. So why not delay the inevitable by taking up positions behind the barricades and presenting every possible argument against the onslaught of that most dreaded of all human developments: a better future. ■

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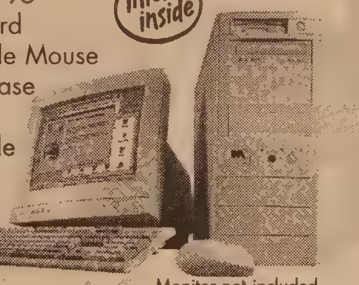

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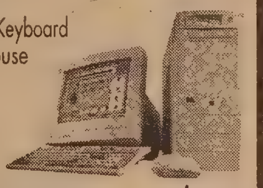

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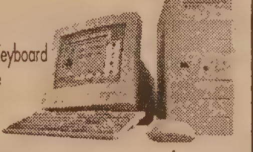

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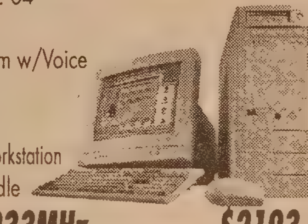

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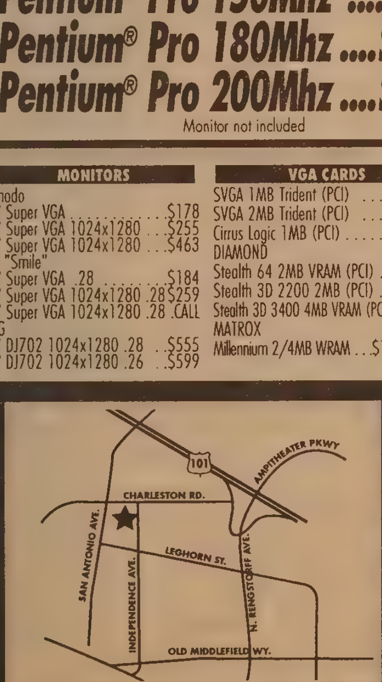

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UNIX • BY BENNETT FALK

Is This Grail Still Holy?

A New Variation On PC UNIX

Softway Systems is a young company that has taken up an ancient quest. (Because this is the software industry, youth and age are both virtual; anything that goes back as far as 1984 counts as "ancient." Softway Systems was founded in 1995 and probably won't count as "a young company" in another six months.)

The quest is to bring UNIX-like functionality (whatever that may mean) to a PC (itself a moving target). Lots of people have tried to do this with varying degrees of success, and one has to wonder if another attempt is really worth the trouble. (For a detailed account of some of this history, see the New England NT User's Group Web site cited below.)

Most of the products that attempt to implement UNIX features on the PC platform fall into one of two categories: complete operating systems that run in place of Windows (or DOS) or tool-kits of individual UNIX utilities.

Currently the best-known of the UNIX-like operating systems for PCs is Linux, but there are many others including FreeBSD, Xenix, Minix, Coherent... These products typically offer a UNIX-like operating system kernel. (The *kernel* is the part of an operating system that interacts directly with the hardware. Any program that needs to manipulate hardware does so through services offered by the kernel). The operating system products also include a user environment (commands, utilities, and the like) similar to that offered by UNIX. In general the UNIX-like operating systems for PCs approximate the multi-tasking, multi-user facilities of UNIX-based computers.

The "toolkit" products are collections of individual UNIX utilities (such as "vi" or "csh" or "ls") that run under DOS or Windows. Typically, the toolkits offer the same user interface and behavior as the UNIX originals without reproducing the UNIX operating system facilities. The outstanding product in this category is the MKS Toolkit. Products that implement popular UNIX subsystems (like Hummingbird's Exceed, a version of the Xwindows Graphical User Interface for Windows) could also be listed among the "toolkit" products.

OpenNT

Softway Systems' product is called "OpenNT." OpenNT is a fully-featured UNIX system that runs on top of Windows NT. Basically, OpenNT is a "kernel-level subsystem" for NT. It provides standard UNIX interfaces (both the user interface and the programming interface or API) for services implemented in the NT kernel.

> **The quest**
>
> is to bring UNIX-like functionality (whatever *that* may mean) to a PC (itself a moving target). Lots of people have tried to do this with varying degress of success, and **one has to wonder if another attempt is really worth the trouble.**

A UNIX-compliant subsystem running on an NT platform allows application programs developed for UNIX to be ported to (and used on) computers running NT. OpenNT also provides an NT-based development environment that can be used to create applications for UNIX systems.

In effect, OpenNT represents a third approach to the "UNIX on a PC" problem. It differs from products like Linux in that it doesn't have a "native" kernel: OpenNT uses the low-level operating system services provided by NT. It differs from other toolkit products in offering an extraordinarily complete representation of the UNIX API and user interface. It complies with both the POSIX.1 and POSIX.2 standards and includes socket-based networking, shared memory, and inter-process communication with message queues and semaphores.

The beauty of this implementation is that the presence of the UNIX interfaces doesn't interfere with access to either Windows NT or Windows applications.

Positioning

Strategically, OpenNT is a very, uh, interesting product. Microsoft wants NT to win over a segment of the operating system market that now uses UNIX. The UNIX vendors (chiefly hardware companies like Sun, Silicon Graphics, HP, and IBM) spent most of the '80s bickering among themselves, but have now closed ranks and are working very hard to protect their markets from an invasion by Microsoft.

Operating system standards are one tool the UNIX vendors use to protect their markets. The basic idea is to write a standard that describes a product (such as UNIX) abstractly and then to

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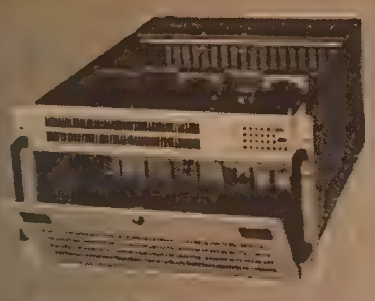

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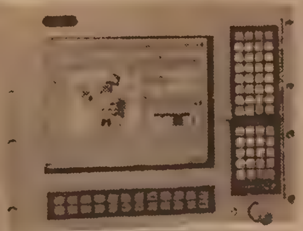

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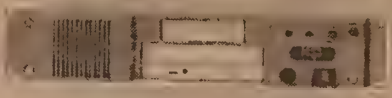

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lobby the potential purchasers of that product to adopt the standard as a criterion for future purchases.

This sort of thing has been going on in the UNIX industry at least since AT&T published the System V Interface Definition (SVID) in the late '80s. The standards have evolved considerably since then (through POSIX and now to the Single UNIX Specification maintained by the X/Open Group), but the use of standards to influence the purchasing process continues.

Of course, NT generally doesn't conform to the UNIX standards, and would not be considered for procurements that use those standards. Some of these procurements are quite large: For example, the US Federal Information Processing Standard 151-2 mandates the POSIX standard for federal purchases. (When NT was introduced, Microsoft made a big deal of the inclusion of a POSIX-compatible subsystem that might make NT a contender for procurements that had a POSIX requirement. The NT POSIX system, however, had such limited functionality that it failed to have much influence on purchasing decisions.)

With OpenNT, all that may change. OpenNT is POSIX-compliant and Softway Systems is in a very good position to apply for the use of the UNIX brand name. If OpenNT wins the right to use the UNIX brand name, the combination of NT and OpenNT will be able to compete in the UNIX market as another variety of UNIX.

The User Experience

However strategically interesting OpenNT might be, there is still the practical matter of what it is like to use OpenNT.

Right out of the box, it is hard to tell the difference between OpenNT and the toolkit products mentioned above. The program menu for the OpenNT Workstation Demo basically has entries for reading the documentation and running a UNIX shell (csh or ksh) in a window. The basic utilities are there and work as expected. Launching Windows programs from a Csh command line is fun the first time you do it, but rapidly loses its lustre. (The OpenNT documentation includes guidelines for executing programs across the two environments.)

> Strategically, OpenNT is a very, uh, **interesting** product.

The OpenNT Xwindows server works well, but in general Xwindows doesn't compare favorably with the NT GUI.

The Telnet daemon (telnetd) that is included with the OpenNT Workstation package begins to suggest what the system can do. Telnetd works just like its UNIX counterpart, running in the background to support interactive connections to the NT machine from other network hosts.

OpenNT becomes really exciting for a user when a UNIX application is installed and running. Fortunately, Softway has compiled a version of the Apache Web Server for OpenNT. (The Web server is not included on the OpenNT demo CD and must be downloaded from the Softway Web site.)

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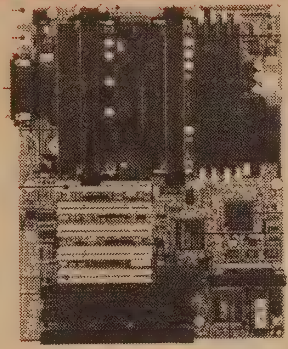

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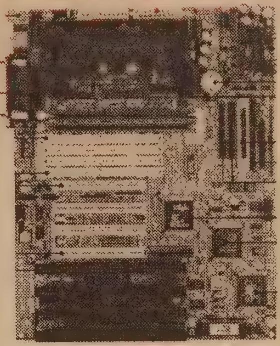

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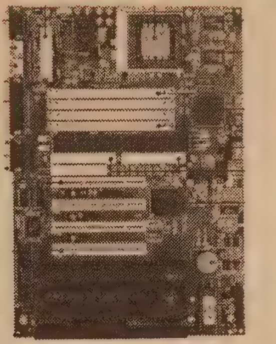

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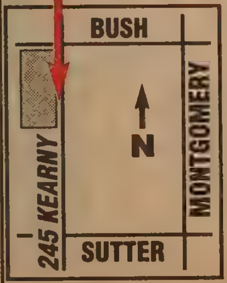

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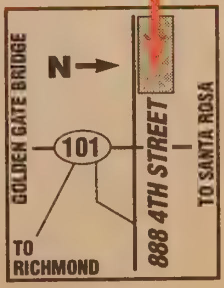

UNIX *continued...*

The Apache Web server (Softway is offering v1.1.3) has been a UNIX application from the outset. Apache gives the UNIX kernel a reasonably good workout: It's a network-intensive application that runs as several distinct processes whose operation must be coordinated. Launching the Web server is just a matter of opening up a shell window and executing the httpd command. As with UNIX processes, an ampersand puts the process in the background. Once the Web server is running, the user can exit from the shell window.

That the Apache server runs at all under OpenNT demonstrates how well the UNIX execution environment has been reproduced. The sense of wonder begins to deepen when you realize that the Web server is just there: it doesn't require an OpenNT console (or any visible evidence of the OpenNT system); it is a UNIX-like process floating in an NT environment.

Connecting to that server with a browser running in the native NT system on the same machine is one of those vertigo-inducing experiences that (regardless of what you might think of OpenNT's strategic implications) makes life worth living. This time the quest was worth the effort. ■

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OpenNT is POSIX-compliant
and Softway Systems is in a very good position to apply for the use of the UNIX brand name.

RESOURCES:

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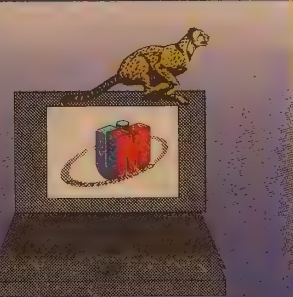

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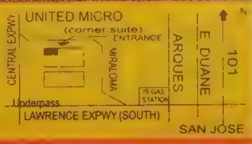

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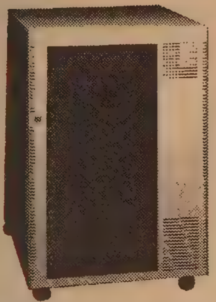

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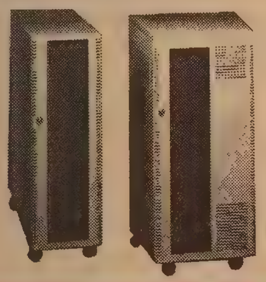

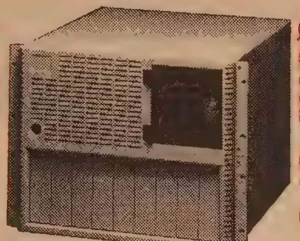

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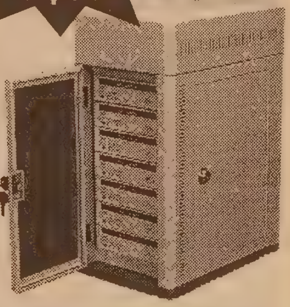

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Talk To My Agent

AppleScript And Customized Tasks

You may have noticed that your computer is haunted. Assistants that you did not ask for suddenly pop up and offer help. Web pages arrive with unsolicited animations. An online form will not allow itself to be submitted until you fill in one of the fields.

These autonomies are mildly unsettling. They are obviously programs, but they are different from those we are used to. You did not know you loaded them, but there they are, running on your computer. They are self-directing—you have no idea what they are doing until they do it.

You are encountering "agents," the latest thing in software.

Agents are very much in fashion. They are the growing edge of computer intelligence. A particularly well-written book by George Dyson (the brother of Esther Dyson) gives the history of agents and other computed intelligence. If you have time for only one extra-business book this quarter, consider Dyson's *Darwin Among the Machines: The Evolution of Global Intelligence*. There is also a superb online newsletter, Tim Finin's *AgentNews*, that will point you to the very latest developments in agentry.

Most agents are programmed by other people and sent to us as part of a Web page, a program or an operating system. But there is no reason you should not be building your own agents, for your own use or to distribute to clients. The good news for the small-business operator is that agents are not only for the high-end developer. They can be created and deployed by anyone, within one computer or across the Internet.

You will not only have useful help on your system, you will also be training yourself for the agent explosion taking place in the computer world.

What's An Agent?

An agent is a small program that autonomously does a task. It may operate in the background, or it may communicate with the user. You can ask an agent to perform repetitive tasks just as macros always have. But because most agent-languages have conditional (if...then) and looping (for, repeat, while) structures, an agent can make decisions for itself.

The good news for the small-business operator is that agents are not only for the high-end developer. They can be created and deployed by anyone, within one computer or across the Internet.

Most agent languages allow response to events. The agent is able to watch for certain happenings and respond to them. It might do something at a certain time, like giving you an alarm or signing onto an online service and exchanging data. It might watch what you are typing, and help by underlining misspelled words. Microsoft Word's spellchecker does exactly this, looking up each word as it is finished being typed and marking any word not in the dictionary. You can build agents to do any task you want, in almost any environment.

How do agents differ from macros? They are an evolution of the macro, actually, with more power and more mobility; but still they are relatives of the humble recorded macros that many of us have used for years. Because they are more powerful, however, they verge on being something entirely different—intelligent programs that can operate without human supervision. They also cross boundaries.

I like to think about agents and the languages for creating them in terms of three questions: What is their range? How powerful are they? And how friendly are they?

"Range" is what makes an agent different from an ordinary utility. If you write an agent in a given programming language, where can it go? An ordinary program works within its own filing system on its own computer or network. An agent is designed to cross boundaries, just like a human agent. It may cross the frontiers that separate applications, and give instructions to another program just as a human might. It may travel down a network and control things on another machine. Or it may cross operating systems, as Java programs do, to work on a different platform. The boundaries an agent can cross define its range.

AppleScript will work in (and between) many Macintosh applications. Visual Basic for Applications will work in all the programs of

continued on page 90

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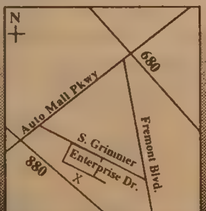

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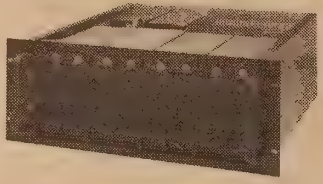

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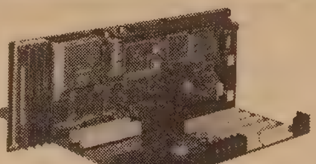

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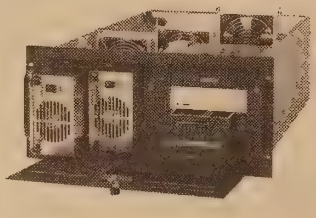

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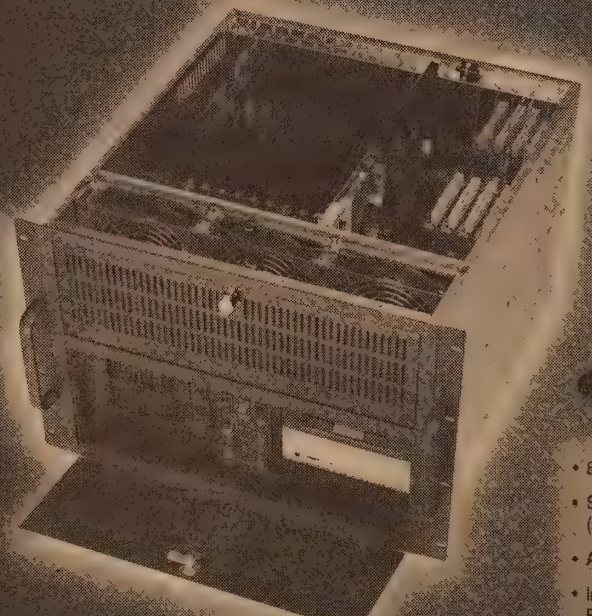

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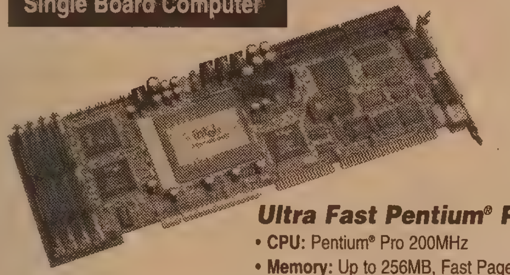

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Small Office/Home Office

continued from page 86

Microsoft Office 97 except Outlook, and in a few other applications as well. Java will work within one computer if you build a Java application. If you build a Java applet, it will work across the Internet, on many different platforms, but it is excluded from the file system of the machines it visits. It works only in the Java "sandbox," enjoying a status a bit like the extraterritoriality of an embassy.

The power of an agent-writing language is all the things it can do. Can the agent reach into data files? Can it manipulate graphics on the screen? Can it do all the things that I might want done? If not, it is insufficiently "fiendly," too weak a demon to be worth summoning. Some languages for the creation of agents deliberately exclude them from certain powers. Javascript and Java applets, for instance, are not permitted to get into the file system of the machine they are visiting. The restriction is for the security of the user. It increases the trustworthiness of the applet, but it certainly reduces its "fiendliness," its power.

Agents and the languages for creating them vary widely in friendliness as well. Agents must steer between usefulness, which requires initiative, and unobtrusiveness. The messages they give must make sense to the user, and they must arrive at appropriate times and be welcome. Microsoft Word, for instance, has "wizards" that are helpful but intrusive. I really don't need a paperclip to appear and observe "You look like you are writing a letter. Do you want help?" every time I type "Dear Somebody" and hit return. The message is understandable, the service offered might be useful; but frankly it is offered a bit too often. It fails one of the friendliness tests.

The same distinctions apply to the languages used to create agents. Is the language friendly to the user? Is it obvious what to do? Is a reasonable guess likely to be right? Languages for the creation of applets range from the very friendly such as AppleScript, to the profoundly opaque like Visual Basic for Applications. A cost-benefit analysis of agent-creating languages always favors the friendly one. The most expensive ingredients you invest in building any application are your time and your temper. Friendly languages save time and preserve your composure. Obscure languages frazzle patience and waste your days.

In this issue we look at AppleScript for the Macintosh. In the future we will look at Microsoft's Visual Basic for Applications and other agent-builders.

AppleScript

We run on an iron-hard schedule here at *MicroTimes*. I had only seven days to try out AppleScript, the language that Apple has created to link together various Macintosh applications. This is frankly not enough time—all scripting languages are more subtle than they seem. You are definitely behind the scenes, backstage with the costumes and painted flats and dusty ropes that make the show work. Working behind the scenes always reveals that what is going on back there is more complicated

continued on page 94

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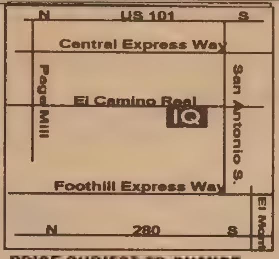

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Small Office/Home Office

continued from page 90

than you thought. So all I can do is give a preliminary impression of AppleScript.

How does AppleScript tally on our three criteria of friendliness, power and range? For friendliness it scores as high as any programming language I have seen. The syntax is intuitive. Documentation is very readable, if not perfectly indexed. The AppleScript development system comes with many example scripts and several printed books and booklets.

Apple has a very long tradition of making systems friendly. The Mac interface became the model for Graphical User Interfaces. When Apple designed their scripting language, they made it as direct and clear as possible. Although AppleScript is available in several dialects (including French, Japanese and "Programming") most users will work in the English Dialect. In that version you use a language that is very much like English to tell the system just what you want done.

As a first test, I wrote a script to greet the outside world:

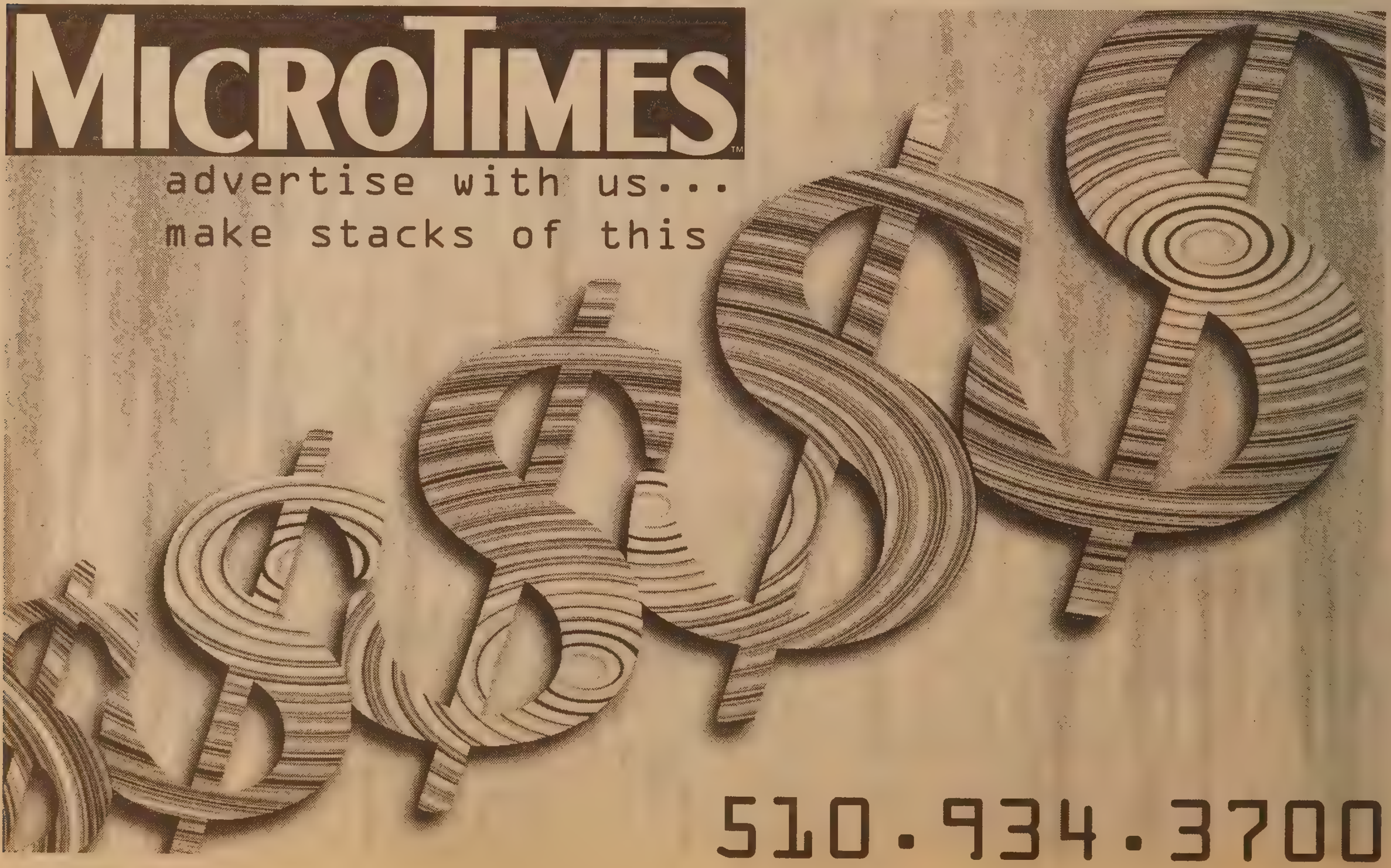
```
TELL APPLICATION "SCRIPTABLE TEXT
EDITOR"
        DISPLAY DIALOG "HELLO WORLD"
END TELL
```

It was simple and direct. TELL gets the attention of the object with which the script wishes to speak. A message beginning TELL APPLICATION "SCRIPTABLE TEXT EDITOR" would be sent to that editor, no matter what other applications might be running on the Mac at the time. This word TELL is an inspired choice. It reminds you that you are dealing not with a single system, but with an ecology of interacting objects.

AppleScript rates almost as high for power. A full range of data types is included. The language's operators do many of the things a user needs with no further development required. I found (for instance) that Apple had built in a random-selection operator that can be applied to many different data-types, simplifying the creation of games and simulations. The included "interface designer" will let a user build standalone applications as well as scripts.

AppleScript allows you to create your own objects. It has inheritance, the ability to make new versions of an object that reuse some of the code of the "parent" object. You could produce quite complicated programs to work within one Mac or (to some extent at least) across an AppleTalk network.

> A **cost-benefit analysis** of agent-creating languages always favors the friendly one. The most expensive ingredients you invest in building any application are **your time and your temper.**



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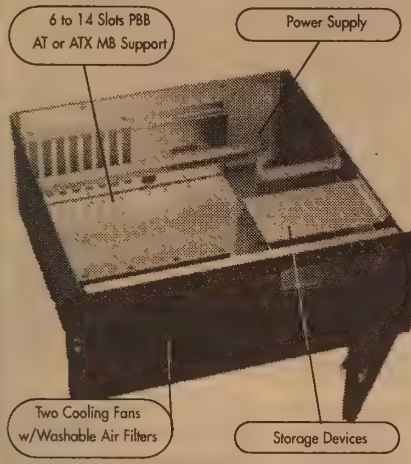

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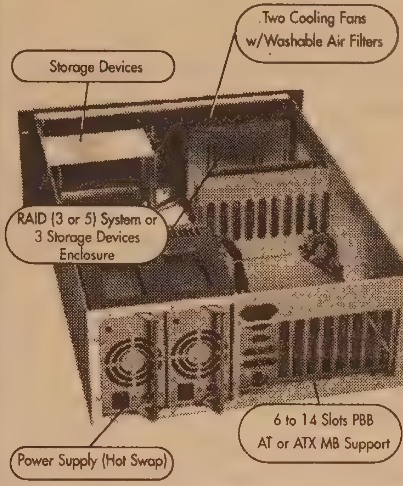

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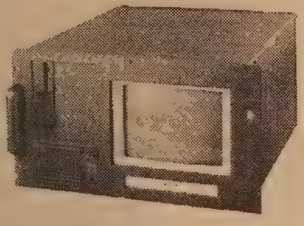

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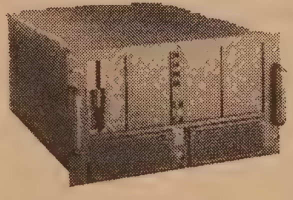

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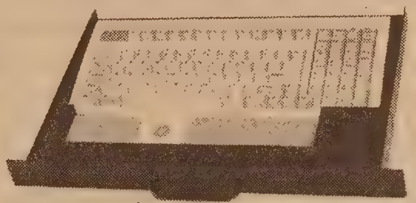

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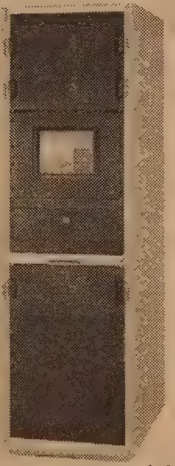

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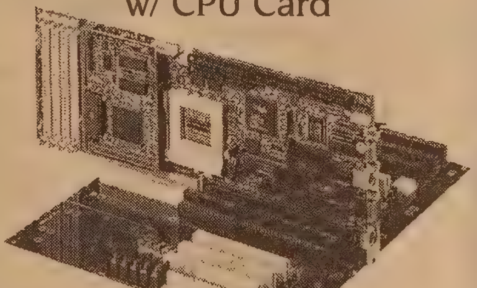

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Range? Ah, there's the rub. Objects are hybrids of data and subroutines, each object a miniature computer program. They cooperate by sending each other messages. This messaging means that a designer must constantly ask two questions: "What does this object know how to do?" and "How do I tell it to do it?"

AppleScript works with applications in a cooperative dance. Each successfully executed command is a collaboration between the scripting language which sends a message, and the recipient object which responds. The script may say

```
TELL APP "SCRIPTABLE TEXT EDITOR"
        COUNT WORDS IN PARAGRAPH 1
END TELL
```

If the recipient application understands this command it will reply with a word count. In order for this to happen, the application must be scriptable.

AppleScript comes with a list of seventy Macintosh applications that understand AppleScript, but that understanding has several levels. A minimal level just opens the application or a file, prints it, and quits. More complete script-responsiveness lets data be copied, counted, replaced, re-styled, and massaged in all sorts of ways. If you are planning to use an application in connection with AppleScript, you need to make sure that that application is capable of responding to a full range of commands.

Apple's own ClarisWorks lists only twenty commands from AppleScript in its AppleEvents database. When I wrote scripts that addressed ClarisWorks documents, I got back plaintive error messages that ClarisWorks did not understand what the script was asking for. This is disappointing. The AppleScript Scriptable Text Editor understands many more commands. Those abilities would make ClarisWorks a killer application indeed. Instead ClarisWorks uses its own macro system, which does not have conditional branching or any of the faculties that make AppleScript so useful.

A number of corporations have used AppleScript to create very complicated systems. A recent *InfoWorld* story said that they and Apple have reached an agreement by which AppleScript will continue to be supported in future editions of the Mac OS. This is promising for developers. AppleScript could be a professional sideline for any Mac specialist. It is certainly worth using, if you have a Mac application that is fully responsive to scripting. ■

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BY N. DEAN MEYER

The Failure Of Team-Building

Excerpted from *RoadMap: How to Understand, Diagnose, and Fix Your Organization*

Let's go white-water rafting together! Or lock ourselves up for a few days of intense encounters! Or, how about we blindfold ourselves and fall backwards into each others' arms to build trust!?

Obviously, teamwork is essential to an organization's success. If people cannot team well, they must be self-sufficient generalists—the jacks of all trades and masters of none. Performance suffers, synergies are lost, and the organization may as well be broken up and decentralized (or subjected to a leveraged buy-out).

But few organizations are effective at cross-boundary teaming, and most team-building exercises don't seem to have much long-term impact. The reason: They're solving the wrong problem.

For Example...

One leader was concerned about a lack of teamwork, and was about to hire a consultant to do some team-building—in this case, training programs that build interpersonal skills and relationships. But when he analyzed the problem more deeply, he found that teamwork was inhibited by a number of other deeper causes.

For one, people in different groups did not perceive the same priorities. When your highest priority is someone else's lowest, it'll be tough to get their help when you need it.

For another, he found that people were so focused on serving external clients that they broke commitments to each other the moment a client needed their help. Of course, if you can't trust your peers to keep their internal commitments, you'll do the work yourself rather than invite them onto your team.

Team-building may enhance interpersonal relations. But no matter how well people like one another, teamwork won't happen when there are systemic obstacles to working together. In this case, team-building would have done little good until the organization changes the way it manages internal priorities and commitments.

Worse, treating symptoms can create other problems. For example, team-building could induce people to depend on each other more frequently. But until the problems with priorities and commitments are fixed, the more people team, the greater the risk of project delays.

Furthermore, treating symptoms is not lasting. Until root causes are addressed, problems will crop up again and again.

> **No matter how well people like one another, teamwork won't happen when there are systemic obstacles to working together.**

The Systemic Approach

To fix problems once and for all, and to build high-performance organizations, leaders must change the way the organization operates. Put another way, they must introduce systemic change at the most fundamental root-cause level.

There are five fundamental systems within every organization:

- **Culture:** The behavioral patterns (habits and conventions) generally adopted within the organization.
- **Structure:** The definition of jobs and the reporting hierarchy (organization chart), as well as the processes that combine people into teams as work flows across organizational boundaries.
- **Internal economy:** The budgeting, priority-setting, pricing (chargebacks), project-approval, and tracking processes that determine how resources flow through an organization and to its clients.
- **Methods and tools:** The procedures, methodologies, skills, and tools that people in an organization use.
- **Metrics and rewards:** The feedback loops that let people know how they are doing so they can adjust their behavior, and the incentives for improving performance.

Each can either encourage or discourage effective teamwork.

Culture

Teamwork will suffer if the culture doesn't encourage people to behave in a reliable manner. In the example above, people would breach internal contracts (agreements) when seemingly more important clients request their help. But people must trust their peers before they're willing to form teams, and trust depends on respecting commitments to each other as much as commitments to clients. This is an example of a behavioral pattern that is part of the organization's culture.

Another common cultural problem occurs when people make promises to their customers before they check with their team members to find out if they can deliver on time. Later, when they realize their peers are not available, they're forced to do the work themselves. To ensure that

continued on page 102

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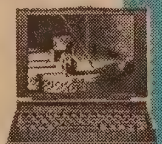

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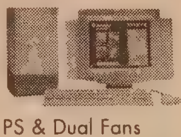

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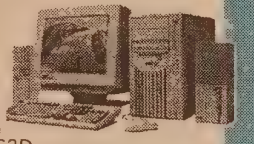

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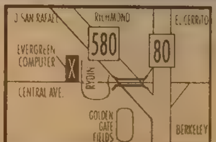

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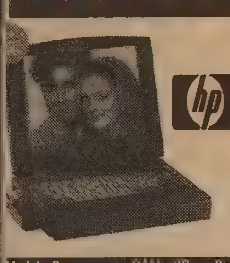

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The Failure Of Team-Building

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others can deliver their portion of the project, people must check with their team members before making commitments to their customers.

In addition, people must agree to work through each other, rather than step on others' territories or hire their external competitors.

Many cultural principles are necessary to ensure healthy teamwork. The absence of these behaviors leads to a lack of mutual trust, and avoidance of interdependence and teamwork. On the other hand, a healthy culture can guide people to keep others informed, promote others' interests, and work well together.

Structure

The organizational structure has a powerful impact on teamwork. If boundaries are unclear, people may not understand where in the organization they can go to get help; or worse, they may find themselves in territorial skirmishes that build animosities rather than partnerships.

Of course, the organization chart may quite intentionally create barriers to teamwork if it divides people into "stovepipe" groups that try to satisfy all of the needs of a given client or process. For example, designating a group of engineers, or "technologists," for each business unit (as in a decentralized staff function) or market (as in autonomous business units) creates groups of generalists that have no need to team. Of course, generalists cannot develop the same competence as can specialists, and the organization's performance suffers.

The organization chart is only part of the picture. Structure also addresses the work-flows across structural boundaries. Considering both at once is essential: Without clear cross-boundary work-flows, it doesn't matter what the organization chart looks like; its boundaries will not be respected. People will naturally evolve into small islands of self-sufficient generalists who replicate all of the skills necessary to do their jobs.

When it comes to work-flows, business-process reengineering is rarely the answer. Managers and professionals don't work on assembly lines. Work-flows must be tailored to the unique requirements of each project or service. So the interesting question is not, "How do we optimize the work-flow for this type of project?" The right question is, "How do we design an organization that automatically generates the optimal work-flow for every project?"

In the past, many organizations depended on the management hierarchy to form and coordinate teams. Of course, this creates bottlenecks that reduce an organization's performance—people waiting in line at the manager's door. A high-performance organizational structure includes mechanisms that induce self-forming and self-managing teams.

The most flexible and dynamic approach to work-flows is to think of each group as an independent business within a business, buying and selling products and services with peers as well as clients. In this way, teams quickly form across boundaries as people subcontract portions of their work to peers. Accountabilities are always clear, and people on the project team who have contracted to supply deliverables can be trusted to do their share of the project.

The design of structure includes the definition of every group's product line. As people sort out who sells what to whom, the patterns of teamwork are established.

Internal Economy

A lack of teamwork is inevitable when one group's highest priority is another's lowest. This occurs when priorities are set independently for each group in the organization, rather than as a single set of priorities for each source of money.

And once priorities are clear, no internal entrepreneur should have to turn away business (from clients or peers) for lack of resources. An effective internal economy ensures that resources follow priorities, and allows supply to expand (or contract) to match demand.

The processes by which resources are allocated and priorities are set are part of the internal economy. A healthy internal economy ensures that internal subcontractors are ready and willing to help when asked.

Methods And Tools

Within each profession, methods and tools improve people's performance. Since the focus is internal to each group, methods and tools don't tell people how to team.

However, methods can teach people when to team. For example, in information systems, the "systems development life-cycle" (SDLC) method defines the steps in the application development process. Notes can be added within the SDLC to remind people to involve the appropriate subcontractors.

When these pointers are missing, the method may actually reduce teamwork by telling people how to do every step—whether or not they are the ones who should be doing it. For example, in one IS department, the SDLC began with the "needs-assessment" step where the client's requirements are determined. Instead of involving business-oriented client liaisons to do this, developers did it themselves. The result: technology-driven projects. Like a child with a hammer who sees only nails, developers assumed that every business problem warranted a transactions-processing application.

Good methods presume teamwork. They remind people to get help, rather than tell people how to do others' jobs.

Metrics And Rewards

Rewards for teamwork may seem like an obvious solution, but in fact they generally backfire. They diffuse personal accountability, and often lead to finger-pointing or stepping on others' territories for the sake of the team.

Furthermore, it's dangerous to reward people for team performance if other feedback loops are telling people not to team. Team rewards can mask a more fundamental lack of organizational alignment.

In a well-aligned organization, there should be no need for team-oriented rewards, since doing what's best for your own entrepreneurship automatically means doing what's best for your customers and building healthy partnerships with your internal suppliers.

Metrics and rewards should focus on individual or small-group performance. Of course, individual metrics should take into account the satisfaction of both customers and suppliers. 360-degree reviews are an excellent example of this. They reinforce that personal success depends on serving on others' teams and forming your own teams as needed.

High-Performance Teamwork

So, if an organization gets all of these systems right, what will the result look like?

In healthy organizations, teamwork is a natural way of doing business. Teams form spontaneously (without the need for management intervention) across organizational boundaries, because everybody is responsible for getting the help they need

continued on page 134

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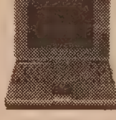

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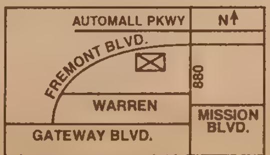

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BY ROYAL P. FARROS

The Making Of An Internet Startup: Part XI

Apple Hires Bill For A Day

***We interrupt** this regularly scheduled series to bring you this special Apple article.—eds.*

Prologue:

Coming as it does from a guy who still bleeds in six colors, some of you might think this article is blasphemous. It is, and it bothers me that I had to write it.

But it bothers me a lot more to watch Apple die that slow, agonizing, ugly death. After all, I'm probably one of the few professionals left that use a Mac at home, on the road, and at the office. I know I'm one of the few professionals left who still wholehearted recommends Macintosh equipment without hesitation. As anyone who has used both systems will attest: The Mac is just a better machine.

Bill would never come to Apple, but it would behoove the new executive Apple team to role-play through the foregoing exercise with all the managers at Apple. Today.

Just imagine—what would happen if Bill Gates actually ran Apple Computer? There's not a single person on the planet that would bet against the company.

Who knows? Maybe Bill would fool us all and hand the reins over to Steve, the only other guy who can tear Apple apart and still have the respect, fortitude, vision, energy, experience, and celebrity necessary to build Apple back up for all the world to see. One only hopes Steve has grown up enough to have learned from his past mistakes... Apple can't survive a second death spiral.

"Will Apple Survive" has probably been the most popular question, year in and year out, in Silicon Valley. For well over a decade, some of the world's best and brightest have pondered how to fix Apple. And for well over a decade, I've said the same thing: "If Apple wants to right itself, Apple should hire Bill Gates for a day."

I'm not kidding. Okay, so Apple might have to pay him $1 billion or so for a day's work—which will be a real bargain because Bill usually puts in twice as many hours a day as most Apple executives. And because Bill wouldn't stand for the asinine politics most Apple executives spend 98% of their days traversing, Bill would actually get something done at the end of the day.

Let's pretend Apple did hire Bill for a day. What do you think he'd do?

Bill's Day In Cupertino—First, Fire Almost All The Managers

First of all, he'd fire 75% of the managers in the place, who, he'd reason, are the living embodiment of The Peter Principle and inbreeding combined. Sound harsh? Try being a shareholder over the last few years. Bill would remind everyone that employees are supposed to work for the shareholders and not the other way around.

When you think of the sheer magnitude of the losses over the last few years, it's really a pretty simple conclusion, isn't it? The current management team—and I'm talking about the majority of the managers at Apple, not just the executive staff—did squat for the shareholders, turning a strong $10 billion asset valuation into a flimsy $2 billion almost also-ran. And this was during a period of *unprecedented growth* in the Valley.

To be fair, the problem isn't with the quality of the people but the intolerable environment that managers are forced to work in... in effect, the environment they allowed to degrade year after year. *Anyone* would fail in this environment—even Bill!—which is why he would have enough sense to rip it out by the roots and start over again.

Most importantly, Bill wouldn't give employees those gargantuanly stupid eight-month severance packages that employees don't deserve: It's clear to absolutely everyone *but* Apple officials that there's a massive problem with termi-

> ***To be fair, the problem isn't with the quality of the people but the intolerable environment that managers are forced to work in...**in effect, the environment they allowed to degrade year after year. Anyone would fail in this environment—even Bill!—which is why he would have enough sense to rip it out by the roots and start over again.*

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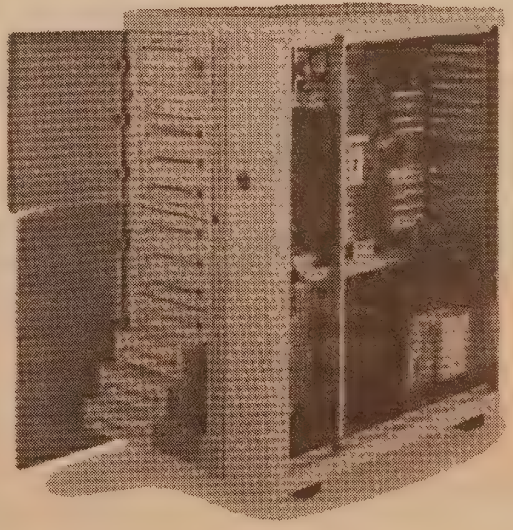

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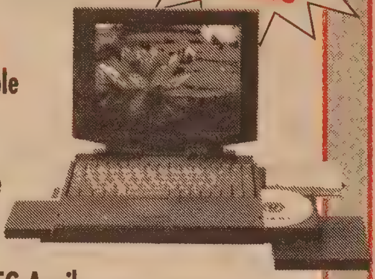

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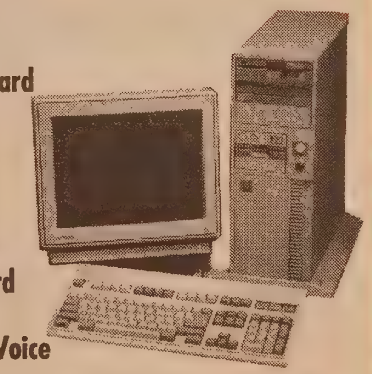

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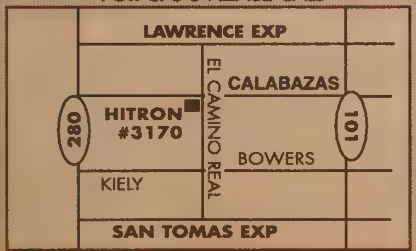

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The Making Of An Internet Startup

continued from page 104

nation packages when the Apple employees who don't get laid off are the ones disappointed.

And are these the kinds of employees that Apple really wants to retain?

Regroup And Rebuild

So what's next on the agenda... we're just wasting time, and Bill only has one day.

Firing 75% of the managers has created a lot of turmoil at Apple. So what's new? That's a typical day at Apple. However, a truly fresh start... now that would be *energizing* to the Apple faithful. Can you believe it? All the politics are gone. Just people who really care about Apple—and can act like business professionals—are left. Awesome.

After quickly augmenting the skeleton management team with a sprinkling of managers from companies like Microsoft, Compaq, Cisco, Intel, Netscape, 3Com, and iPrint—basically people responsible for generating massive amounts of shareholder wealth over the last few years—Bill would take an inventory of Apple's "core" strategic assets. (Okay, I threw in iPrint to see if people were still paying attention.)

It would take Bill and his team exactly two minutes to come up with the five most important things Apple has going for it: Brand name, loyal customers, leadership in graphic arts, leadership in education, and quality—even if formerly mismanaged—engineering.

> ***It's clear to absolutely everyone* but *Apple officials that there's a massive problem* with termination packages when the Apple employees who don't get laid off are the ones that get disappointed.**

With this foundation, Apple can now intelligently rebuild itself into a powerhouse for the new millennium.

Time for lunch yet? Not for Bill, he's just getting started.

But What About Microsoft?

Some say Bill now has to face his toughest issue: How can Apple compete with Microsoft?

Ha! Bill would just laugh at this question. Ha! Ha!

Apple can't compete with Microsoft in the short term any more than IBM, Lotus, WordPerfect, or Novell were able to. It's stupid, costly, and a waste of valuable brain bandwidth to even consider such a suicidal strategy. Why? Because even ancient military tacticians knew it's cheaper to defend than to attack a stronghold... and is there any doubt that Microsoft has a stranglehold on the desktop? Guess our *entire industry* just plain overlooked this.

Apple has to stop thinking about competing with Microsoft and instead figure out how to jump on the gravy train. "Show me the money!" is what shareholders want to hear.

But before this can happen, Apple needs to figure out exactly *where* the money is. And who better to tell them than Bill?

Short-term money is in the wonderfully differentiated high-end systems that Apple currently makes. Short-term money is in Windows 95. Short-term money is in Windows NT. Short-term money is in the Internet.

So what does all of this mean?

The first one is easy and, in fact, Bill is happy to see that Apple figured this one out all by itself. People who do high-end stuff want speed, power, and more speed. But Apple needs to go farther: It's time to offer the high-end twice the machine at the same price point as comparable PCs. Or three times the machine. This has to be a no-brainer decision: Their livelihood depends on it.

Pulling out all the stops is the only way corporations can justify keeping Apple on its equipment lists, something Apple has been falling off of with dangerous regularity. Bill would reason that once Apple falls off these lists, Apple will lose its only clear corporate win and one of its few core foundation strengths. Ouch.

While Bill is at it, he would cut Developer Services by 85% and do what Intel does: Blatantly invest in companies that have strategically important software and require them to wholeheartedly support Apple's high-end platform. As much as it pains me to say this, everything else be damned.

So what does this mean to the smaller developer? Again, history has taught us that The Next Big Thing comes from these folks. They are important! But, what is most important to small developers? A platform that's easy to program for *and* a huge market to sell into. Both of these things fall outside the purview of Developer Services, so what is really being accomplished here?

Maybe the NeXT acquisition wasn't so silly, especially since it also gives us a nice entree into working with Intel, one of the gravy train companies Apple definitely wants on its side.

Working with the numero uno gravy train partner, Microsoft, is harder, but much more important. How does Apple work with Microsoft? How does Apple get its piece of the Windows 95 and NT marketplace? Bill wouldn't need to come up with this answer... his newly hired management team would. In the corporate space, the answer is: Apple needs to work with Microsoft *any way it can.*

Once you think of Microsoft as a partner rather than a foe, a zillion ideas spring forth. Maybe Apple could sell its clearly superior monitor technology to the PC world? Hey, it worked for Hewlett Packard: HP's flub in personal computers in the early '80's opened the door for them to own the printer market in the '90's.

Thinking about printers, everyone knows that HP print drivers are just the worst. Maybe Apple can apply some of its famed engineering to the PC printer market and bite out another nice chunk of revenues?

Most importantly, can we apply any of our superior software technology to improving the way Windows 95 or NT work? It takes a couple of hours to figure out how to hook up a PC to a network: It only takes a couple of minutes to hook up a Mac. There's got to be *something* Apple can ride to the bank here?

Maybe this is the missing piece: Just make Windows NT work on a Mac. I know lots of other people have proposed this. I know Microsoft had a PowerMac version in the works but canned it. Apple fumbled the chance to provide a *differentiated,* high-margined NT platform alternative to corporate America. Good

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The Making Of An Internet Startup *continued...*

thing Bill is here because he wouldn't just think about doing this: It would get done.

A few of the existing Apple managers might suggest that all of these ideas are helping Windows get stronger which is the very thing that's killing the Mac.

Bill's retort is swift: It's not Windows vs. Mac. It's making money vs. dying a slow, agonizing, ugly death. Apple has already lost its window of opportunity here, so to speak. Bill would then require all Apple employees to tattoo Microsoft's and Apple's earnings and stock performance over the last few years to their foreheads, indelibly reminding them that what has gone on in the past hasn't worked and that new thinking is required to return Apple to global prominence.

Bill would sigh. Apple still doesn't get it, do we?

The InterMac?

Well, maybe here's something Apple does get: How to open up new, wonderful marketplaces! Drum-roll please: Enter Apple's next mass market, the InterMac.

The nice part about the Internet is that it's supposed to be machine-independent: People can buy the wonderful Apple brand-name without fear of chastisement or incompatibility.

Another nice part about the Internet is it's really difficult for normal people to get connected to bona fide ISPs: What a great situation which plays into Apple's engineering and human-interface strengths.

Yet another nice part about the Internet is it will be all-pervasive: What a wonderful opportunity for Apple to proliferate Macintosh technology.

Ah, now this makes sense: We're not giving up on Macintosh, we're *repositioning* it in an area where it has a fighting chance to recapture the *wild* success of yesteryear.

Some people will argue with Bill that these boxes will be a dime a dozen. Bill will say that this is great, as long as all dozen are using the Apple InterOS and we get all the dimes. We're not going to make the same dumb "we don't aggressively license our stuff" mistake. He who has the most customers wins. Hasn't Apple learned anything from Microsoft after all these years? Why does Apple think Sun wanted to buy them last year? To get access to a mass of up-and-coming customers.

Maybe Apple employees can innovate some new, radical business models to market the InterMac. Maybe Apple leases the box as a simple, "push-one-button-and-you're-on" service, kind of a cross between an AOL, ISP, and a cable operator. Hmmm... some interesting alliances start to present themselves.

Hey, that's what has been missing from Apple for a while now, reminds Bill: Who got the bright idea to unplug all of the important marketing alliances? Even Microsoft couldn't continue at its torrid pace without them. Geez.

Bill yawns. It's almost midnight. He feels he's earned his $1 billion, chuckling to himself that he would have done it for $500 million since everyone knows that Microsoft *needs* Apple to stay in business or suffer the wrath of the FTC. ■

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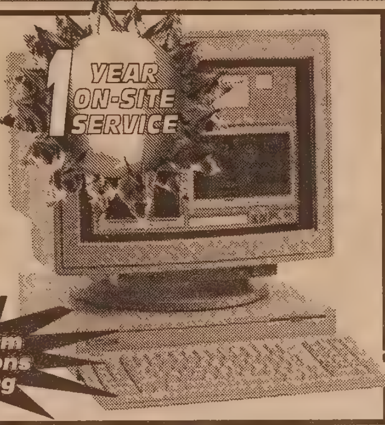

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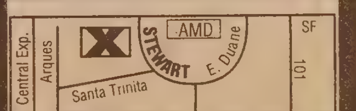

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Fighting Back For MAC

Apple's Chief Evangelist Guy Kawasaki

For once in his life, Guy Kawasaki's having a little trouble holding his audience. His valiant efforts to keep up a conversation are seriously undermined by 2-year-old son Noah, who, sensing the presence of potential fans, is regaling us with Buzz Lightyear renditions, introductions to toy trains, and earnest revelations that the creature portrayed on the living room wall is, in fact, a rhinoceros.

Beyond the world of giggly little kids, things are looking a bit less upbeat—indeed, we're visiting Kawasaki's house a few days after the ouster of erstwhile Apple chairman/CEO Gil Amelio, and the ensuing upheaval and rumor-mongering is enough to make even the irrepressible Kawasaki long for a little boredom for a change.

Particularly among those who actually use Macs and wish to continue to do so, Kawasaki is arguably the most powerful person in the Macintosh industry, largely for his well-developed ability to inspire and leverage fervor and zeal. His first book, *The Macintosh Way*, chronicles the dawn of Apple's life-changing computer, including the software evangelism program, and extrapolates therefrom the guerrilla marketing principles he's been developing in subsequent books (most recently, *How To Drive Your Competition Crazy*). Over the years he's headed one software company and been associated with others, written columns in outlets from *MacUser* to *Forbes*, and provided a rallying point for Macintosh lovers in good times and bad.

Currently Kawasaki is an Apple Fellow. Unlike other Apple Fellows of the past (e.g. Don Norman and Alan Kay), his efforts are not expended in R & D, they're expended in rallying the troops, most notably with EvangeList (*http://www.evangelist.macaddict.com/*), one of the liveliest examples of computer-facilitated collaboration yet devised.

Every day—sometimes several times a day—EvangeList subscribers receive a digest of press releases, action items, job offers, Bill Gates jokes, and calls for mutual assistance.

"Help!" a subscriber might say, "My office is about to switch to Windows if I can't find a Mac program that does yada-yada." Immediately helpful Mac-oids from all over the world email the beleaguered correspondent with advice about optimal Mac-based achievement of yada-yada.

And woe betide the journalist who bad-mouths the Mac or joins in the frequent orgies of *Schadenfreude* at Apple's expense. Said journalist immediately gets a lesson in two-way communication from impassioned EvangeListas.

All this tends to get Kawasaki classified as a loose cannon by the entrenched priesthoods of trade publishing, and exerts its influence with significant independence of corporate machinations in Cupertino. Perhaps for that very reason, he enjoys uniquely high trust ratings among Mac users, and many of the developers that were his first constituency.

So it's no surprise that in the post-Amelio What's NeXT? rumor-mongering, Kawasaki's name tended to head the popular short list of Apple CEO candidates, to the point where he told the EvangeListas:

"You can work your butt off anytime, but your kids are young only once. Thus, I made a decision to not take an operating role in a company so that I could be with my two kids and wife. I took the Apple fellowship because I love Apple, Macintosh, and our customers, and it was the only way to get a PowerBook right away, but it is a fellowship and not a 'job' per se.

By Mary Eisenhart • Photos: Anne Knudsen

"My decision is not going to change in the near future, and you know what? My kids don't care how the *Mercury* reported an Apple story, how the *Wall Street Journal* predicted our death, how the SPA forecasted a decline in Macintosh software sales using inexplicable math, or whether Apple's market share is 5%, .5%, .05%, or 5000%.

"All they care about is that I'm with them. And what job could possibly be more important than this?"

Meanwhile, the battle for Mac goes on.

As we go to press on the eve of Macworld Expo Boston, persistent rumor has returning founder Steve Jobs getting the nod for the Chairman position, while Jobs, now having a perfectly fine time as Chairman/CEO at Pixar, is telling his employees he's already refused the offer. Meanwhile, in his stated capacity of strategic advisor to Apple's board, he's slated to give the Macworld keynote address. Stay tuned for further developments.

"When a company standardizes on Windows, it is essentially telling employees that **either they aren't creative or creativity isn't desired.** Let's see those Intel guys in clean-room suits dance around this one."

* * * * *

What's it like working at Apple right now?

It's like being in Baghdad on the first night of Desert Storm, only you're the good guy. There are more people trying to build their reputation by predicting our death than there are nerds in Fry's.

What's it like to have Steve back?

It couldn't be more exciting. His sense of aesthetics and his demands for excellence are the stuff of legend. He will catalyze more change at Apple in the next sixty days than has occurred in the last six years.

Your name was being bandied about in numerous circles as a candidate for the CEO job. You even won one online poll as the people's choice for the job. Do you want the job?

Nope, and luckily, I won't be considered. You met Noah. I have another son and a wife. On a scale of 1–10, they mean 15 to me.

A few years ago I wrote a book called *Hindsights* which involved interviewing 130 people. They explained to me what they had learned about life and wanted to pass on to others. Not one person told me that he or she spent too little time working. On the other hand, many told me they spent too little time with their kids.

When 130 people tell you you're drunk, you catch a cab. When 130 people tell you to cherish the years you have with your kids, you don't apply to be the CEO of Apple.

I did, however, clip the newspaper article about winning the poll, so that one day I can tell my kids that I sacrificed my career at Apple in order to be with them. That ought to be good for a few lawn mowings.

What qualifications should the new CEO have? What qualities should he or she absolutely NOT have?

The CEO of Apple needs the chip speed of Bill Gates, the toughness of a Navy Seal, and the charisma of JFK. The quality that he or she should absolutely not have is the desire to change the culture of Apple. The CEO has to take the culture of Apple and focus it, hone it, purify it, but not substantially change it—which will only destroy it. Or destroy the CEO, as has been the case up to now.

What advice would you give the new CEO?

The first thing I'd do is clearly position the company and explain which markets we're interested in. My positioning statement would be, "Creative tools for creative people."

That's it. End of story. If you're doing something creative with a computer, buy a Macintosh. If you're not, a Windows machine will probably suffice. Or save a few bucks and buy a network computer running Java applications. But if your job involves creativity, you can't do it without a Macintosh.

What about the education market vis-a-vis this positioning?

What about the education market? Kids are the most creative users of computers in the world. Schools fit in perfectly with this positioning statement.

By the way, one of the ramifications of this positioning statement is that when a company standardizes on Windows, it is essentially telling employees that either they aren't creative or creativity isn't desired. Let's see those Intel guys in clean-room suits dance around this one.

Stipulating that from time to time Apple has done catastrophically stupid things, the business press (the *Wall Street Journal*, the *San Jose Mercury* on occasion, etc.) seems to derive actual glee from playing up Apple's misfortunes. Do you think this is so, and if so, how do you account for it?

I swear that the *Mercury* has a case of champagne all iced and ready to drink to celebrate the death of Apple. It's a good thing for them that champagne improves with age.

Why the bad press? Three reasons: First, we have done some dumb things which have led to problems. Mea culpa!

Second, when a company has problems, there's safety in predicting its downfall. Think about this: If you predict Apple's recovery and it dies, you look like a fool. If you predict its death and it doesn't die, you can proclaim a miracle. Thus, the safe and easy thing is to jump on the "Apple is dying" bandwagon.

continued on page 120

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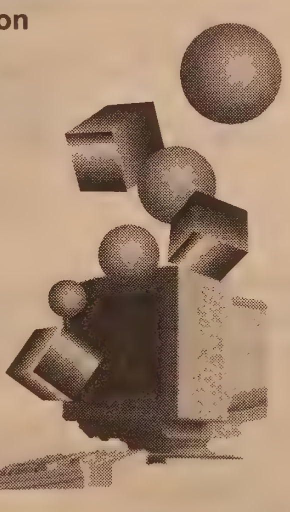

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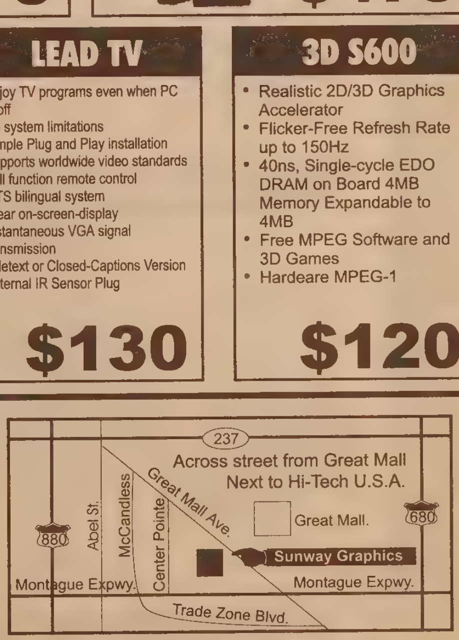

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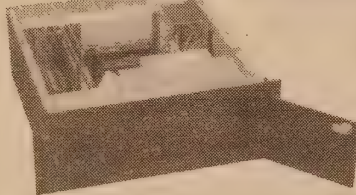

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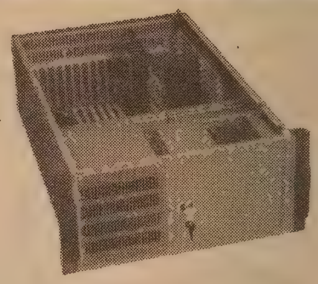

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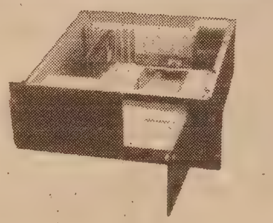

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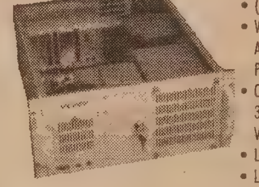

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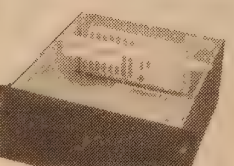

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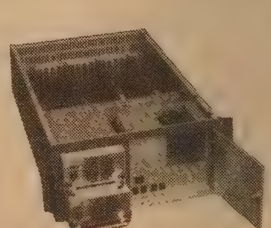

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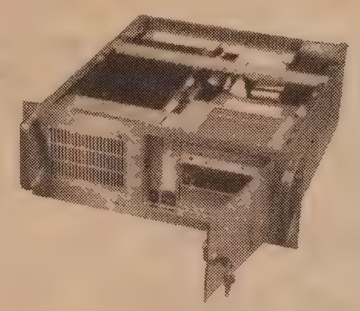
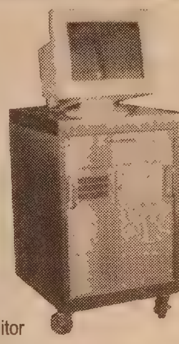
- RC4114SS, 14-Slot Industrial Rackmount Enclosure
- (7″ H x 19″ W x 18.5″ D)
- Electro-galvanized Steel (Zinc Plated) Body with Stainless Steel Front Panel
- Three 5.25″ Horizontal Front Accessible Drive Bays, One 3.5″ Vertical Front Accessible Drive Bay
- Pentium 166MHz CPU Card (Intel Triton Chipset, 256K Pipeline Burst Cache)
- Pentium 166MHz CPU with CPU Cooling Fan
- 14-Slot PCI/ISA Passive Backplane
- 32MB EDO Memory
- Teac 1.44MB 3.5″ Floppy Drive
- Western Digital 2.1GB SCSI Hard Drive
- Toshiba 12X SCSI CD-ROM
- Adaptec 2940 SCSI Controller
- Diamond Stealth 64bit 2MB VGA Card
- Microsoft Windows NT 4.0 Workstation
- 300W PS/2 Power Supply
- 19″ Stainless Steel Rackmount Keyboard with MS Mouse
- Class 1 or 10 Cleanroom Applications



STAINLESS STEEL RACK CABINET

- 36″ Stainless Steel Industrial Rack Cabinet
- (36″H X 21″W X 24″D)
- Stainless Steel Construction
- 1U Height Stainless Steel Rackmount Keyboard
- Up to Three 4U Height Rackmount Enclosure or Two 5U Height Rackmount Enclosure Mountable
- For Class 1 or 10 Cleanroom Applications
- (48" and 60" Rack Cabinets Also Available)



Shown with Optional Monitor

PENTIUM PRO PCI/ISA CPU CARD WITH FLAT-PANEL/SVGA & ULTRA- WIDE SCSI

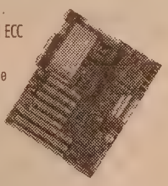
- SM-P6IPVS, Pentium Pro™ Processor 75MHz - 200MHz
- CPU Built-in 256KB Cache
- Intel® 82440 FX Natoma PCI Chipset
- Up to 128MB, EDO and ECC Support
- 256KB Award Flash BIOS
- On-Board C & T 65550 High Performance PCI Flat Panel/CRT Controller
- On-board 1MB Video Dram, Expandable to 2MB
- On-board Adaptec AIC-7880 Ultra-wide SCSI Controller

PENTIUM PCI/ISA CPU CARD WITH FLAT-PANEL/SVGA

- SM-P5IPV, Pentium™ Processor 75MHz - 200MHz
- 256KB Pipelined Burst Cache, Upgradable to 512KB
- Intel® 82430 VX PCI Chipset
- Up to 128MB, EDO and ECC Support
- 128KB Award Flash BIOS
- On-Board & 4 T 65550 High Performance PCI Flat Panel/CRT Controller
- On-Board 1MB Video Dram, Expandable to 2MB

PCI/ISA MAINBOARD FOR PENTIUM II PROCESSOR (ECS)

- P6KFX-A, Single Pentium™ II 150 - 266MHz Mainboard
- Intel® 82440FX Chipset
- Flash Eeprom, Support Plug and Play 1.0A, APM 1.2, MultiBoot, DMI
- 256K/512K Cache Build-in CPU or CPU Card
- Up to 384MB Memory, EDO and ECC Support
- 3 ISA Slots, 5 PCI Slots (with One ZSA/PCI Shared Slot)
- Full ATX with Dual Height I/O Stack, 4 Layers



PCI/ISA DUAL PENTIUM PRO MAINBOARD (ECS)

- P6FX2-A, Dual Pentium Pro™ 150 - 200MHz Mainboard
- Intel® 82440FX Chipset
- 256KB or 512KB Cache
- Up to 512MB Memory, EDO and ECC Support
- 3 ISA Slots, 4 PCI Slots (Including one Shared)
- ATX Single Height, 6 Layers

INTRANETWARE™ Server Series

Fast-Switching Rack-Mount Server

The RMNT-FX1a is a Pentium Pro™ based System designed to meet the challenges of today's performance-based server operating systems such as Novell's Enterprise Solutions. Among its unique features are:

- Designed for MIS data center operation
- Rack mount with face plate at front for easy cable management
- 10/100 autosensing, 4 segments auto switching with aggregate throughput of 400Mps (800 Duplex).
- Plug and play to Ethernet LAN with instant bandwidth increase 4 fold with no change to current equipment or cabling
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- Pentium Pro 200. 64MB memory upgradable to 256MB.
- 8 Gigabyte Wide SCSI drive.
- ECS motherboard P6F x 1-A inside.
- Novell Tested and Approved.

In addition to the above, the rack-mountable RMNT_FX1a system includes several state-of-the art features as well. It utilizes the intel 440FX* PCI set chipset as its core logic, a 1MB Award Flash BIOS with support for PnP 1.0A,APM 1.2, Multiboot and DMI, one EPP/ECP mode parallel port, two 16550 high speed serial I/O port, and built-in USB headers for future upgrades.

Chassis
- Rack Mount (ATX Platform)
- 16.813″ x 18.88″ x 6.75″ (W xD x H)
- Five 3.5″ drive bays (one exposed)
- One 5.25″ drive bay (exposed)

Certifications
- FCC Class B for the system
- Novell 4.1, with approved options

Warranty
- Two-year parts and labor standard
- Optional on-site warranty available

Options
- Video monitor 14, 15 or 17″ Mounting Rack
- Choice of Novell Intranetware 4.11, 3.xx or Windows NT
- Webserver (for Intanetware) option
- Tape drive

New

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Fighting Back For Mac

continued from page 116

Third, in some quarters the mere existence of Apple is offensive because it dares to be independent and different. Explain this paradox to me: The people who proclaimed that the Macintosh GUI was a silly, unnecessary fad are now the staunchest Windows supporters.

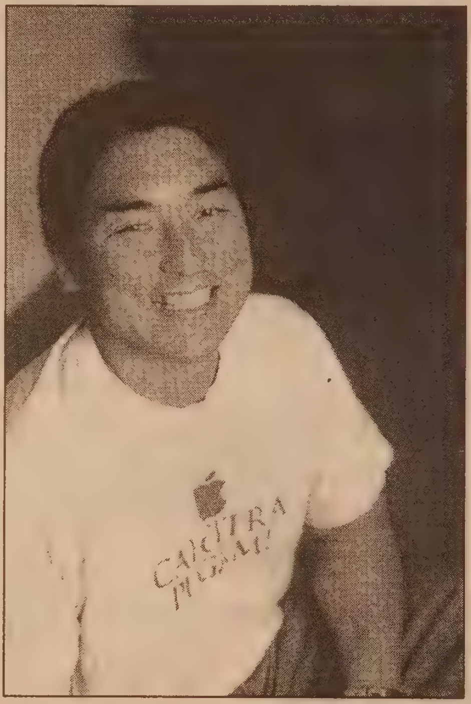
Aren't you being a little harsh? If nothing else, aren't you afraid of retaliation?

How much worse can our coverage get? Let me give you an example: When the prince bought 5% of Apple, the local paper ran a picture of him. Which picture did it use? Him and Michael Jackson. I'm sure the prince had other pictures. Why couldn't they crop out Michael? Were they out of razor blades that day?

Some member of the press claim that you incite email flames upon them. What's your response?

These reporters should focus on why thousands of our customers are willing, indeed eager, to write to them, not on why they are "victims." Sure, some of our customers get carried away, but why are they so passionate? Could it be, my God, that the press is wrong? And thin-skinned?

Let me give you an example: About six months ago the VP in charge of the advanced technology group at Apple left. He was in charge of small, pure research group within R & D. A local paper ran a headline that our chief of R & D left. This was factually wrong. When I asked the reporter about this, her response was, "Sorry, I don't write the headlines." This newspaper wasn't just doing Apple a disservice, but their readership as well.



The slogan on Kawasaki's shirt is Latin for "kick butt!"

> "Our PR department doesn't quite know what to do with me. I think they pretend I don't exist until there's a hostage situation."

You're a child of the Sixties: During the Sixties, the political leaders exclaimed, "We need to stop these riots. They are attacks upon our society." Isn't that why there was a Watts and a Kent State? Isn't that why every protest against the status quo was treated as a life-or-death attack against the Republic?

This country could have avoided a lot of pain if the leaders focused on the real issue: "Why do hundreds of thousands of people (the vast majority of whom are not rioting) think the system is broken?" instead of, "How do we put down the insurrection?"

I write for *Forbes*. My name and email address are out there. I get hundreds of emails. It comes with the territory. If these journalists can't take the heat, tell them to write for Martha Stewart's magazine.

How many people are involved in putting together EvangeList at this point? Who's this Digital Guy?

Depending on how you count, two, three, four, or 44,000. There are two Apple employees who post all the messages: John Halbig (Digital Guy), and myself. Chuq Von Rospach is the listmaster who maintains the list. Then there's also Analog Guy, Michelle Sain; she handles visits, phone calls, and faxes for me, which enables me to focus on EvangeList.

But the real answer is 44,000, because it's the subscribers who send in most of the material or pointers to material. EvangeList, frankly, is not a mailing list, it's a state of mind.

How so?

The list is a state of mind that focuses on freedom of choice, courage to buck the herd, and an appreciation of excellence.

What's the current subscriber base? What's your favorite thing about the list to date?

As I said before, the list has 44,000 direct subscribers. We figure that there's another 300,000 readers because the messages are extensively forwarded and posted on bulletin boards.

My favorite thing about the list is the fanatical loyalty that the subscribers have to concepts such as choice, courage, excellence, and Macintosh.

In the guerrilla marketer's arsenal, where does something like EvangeList fit compared to, say, corporate PR?

In a guerrilla marketer's arsenal, it's the Stinger missile that shoots down the big, expensive, sophisticated, Soviet helicopters. Our PR department doesn't quite know what to do with me. I think they pretend I don't exist until there's a hostage situation.

Despite the gloom-and-doom, the stock seems to be going up. What does this mean in real life?

Heck if I know. Probably nothing. I maintain the romantic and naive perspective that a company's stock price should reflect the the level of satisfaction of the company's customers—not what someone sitting at a terminal in New York thinks.

Who are the real heroes of Apple Computer?

The rank-and-file employees who create great products, get them to market, and support them. Generally, this means anyone who didn't get a signing bonus or a golden parachute. There are also literally thousands of customers who are Apple heroes. These are the folks who saw a better way and were willing to fight for it.

Are you working on a new book?

I thought you'd never ask. I have a book coming out next year from Little, Brown called *Rules for Revolutionaries*. It's a capitalist version of Saul Alinsky's *Rules for Radicals*. It explains how to create and market revolutionary products and services.

What gives you hope in these trying times?

Honestly, there are times I get really depressed, and then someone out of the blue writes to me and tells me how their Macintosh changed their life. Maybe they were disabled and Macintosh opened up their world. Maybe their kid was uninterested in school until he got his hands on a Macintosh. Maybe it's someone who got laid off from a big company and started a successful business at home.

And if I don't get this kind of email, I can always go home to my kids. They don't care how Apple is doing. ■

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- 16MB EDO RAM exp. to 72MB. 256K Pipeline Burst Cache.
- PCI EIDE Controller. 64-Bit 2MB EDO PCI Video RAM
- Removable FDD (exchange for 2nd Battery), HDD (1.44GB-3.0GB)
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- 16-Bit Stereo Sound System w / 1MB Wave Table Synthesizer ROM
- 16 x Speed CD-ROM. Built-in 2 Stereo Speakers & 1 Microphone
- Built-in Touch Pad Mouse, Infrared Wireless Interface, 1 Game Port
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The Corporate Travel Warrior

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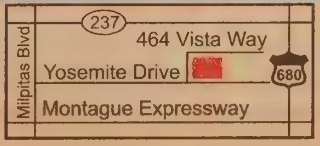

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3GB 32MB 16XCD SB32 33.6Modem

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- Flat Square 17" .28 1280x1024 Monitor
- Diamond Stealth 3D 2000 PCI 2MB EDO RAM
- Teac 1.44MB Floppy Drive
- 16X EIDE Internal CDROM
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- Logitech Mouse w/ Pad
- Built in PCI EIDE Controller 4HD/2FD
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- Mitsumi Mouse w/ Pad
- Built in Board PCI EIDE Controller 4HD/2FD
- 2 Serials (16550 UART) & Parallel Port
- Med Tower Case w/ 230 Watts
- Creative Lab SoundBlaster 32
- 16X EIDE internal CDROM
- Power Speaker
- Microsoft Windows 95

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- Cyrix/IBM 686 166+/200+ or AMD K5 133/166 MHz w/CPU Fan
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- Mouse w/ Pad
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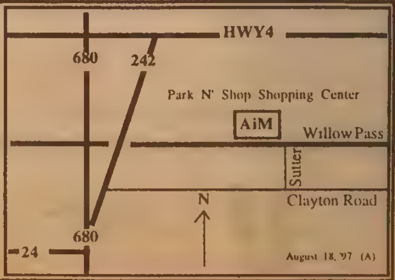

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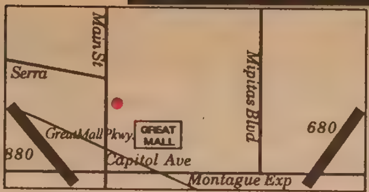

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MGC 1785 17" Monitor
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60W speakers & headphones
Toshiba 16X EIDE CD Rom

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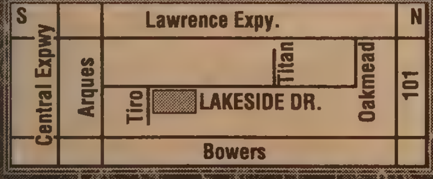

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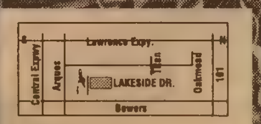

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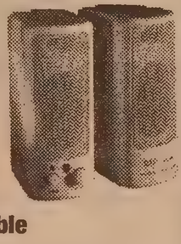

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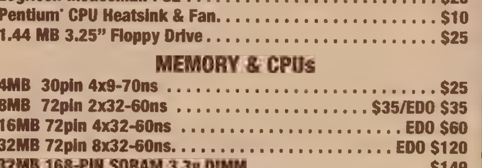

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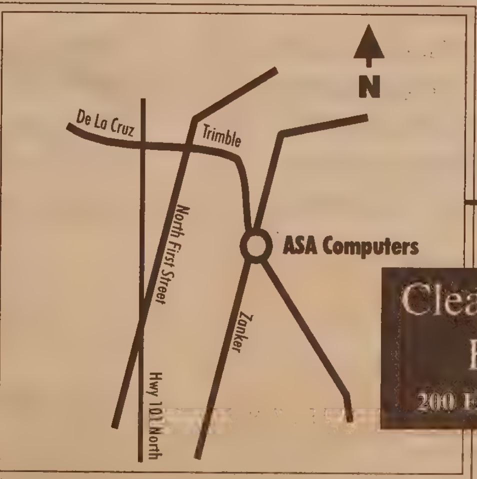

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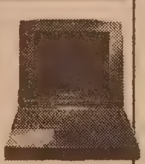

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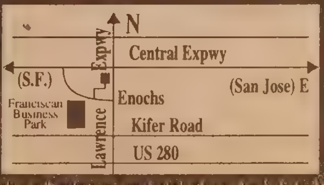

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Some Good News For Mac Users

By Kevin M. Savetz

When Apple released MacOS 8, the latest version of the Macintosh operating system, Mac users were thrilled. Not just because the latest upgrade to the Mac's system software shipped on time, but because the software is clear evidence that good things can still happen at the beleaguered company. Just days earlier, Apple posted a $40 million dollar loss, and a week before that, CEO Gil Amelio was ousted.

At what might be perceived as a dark time, even by Apple evangelists, MacOS 8 appeared, giving users something undeniably positive to rally around. The software is being heralded as the strongest update to the Mac's operating system in years, with a trove of important interface enhancements. Even software pirates, a group that will typically use any excuse to steal software, erased illegal copies of MacOS 8 from Internet software archives and urged fellow pirates to go out and buy it, for the good of Apple.

The newest version of MacOS is a step in the right direction, one in a series of Apple's carefully planned steps towards creating the operating system of the future. MacOS 8 includes notable enhancements, and notably lacks some others. Additions include some of the features that were slated for Copland, a next-generation operating system that has since been killed, including more PowerPC-native coding, spring-loaded folders, and a 3-D interface.

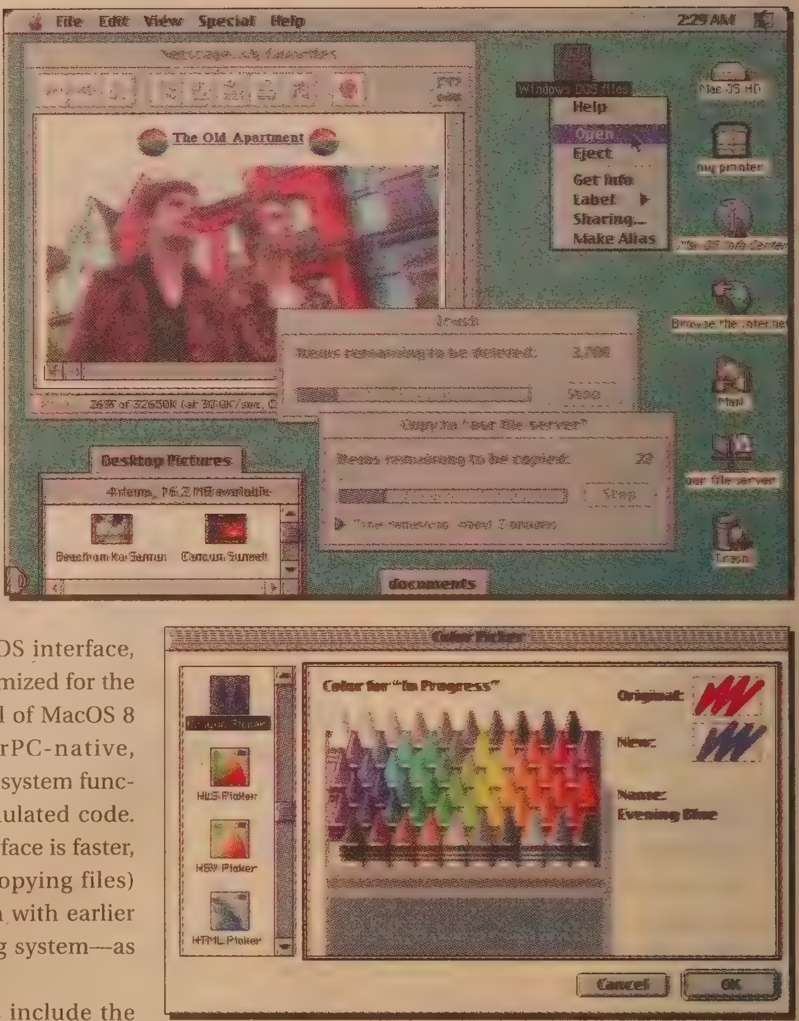
New Features

The features it does add will delight most users, even neophytes. The software has plenty of useful new features, but is just one part of an evolution, which is a mixed blessing.

The most noticeable feature of MacOS 8 is the new look, including a "platinum" appearance and reorganization of commands. Another feature is speed—either more or less of it, depending on your perspective. The Finder is "multithreaded" (meaning it can perform multiple tasks at once, such as copying files and emptying the trash). But MacOS 8 isn't a true multitasking operating system—for that, users will have to wait for the next version, code-named Rhapsody and due out next year.

The heart of the MacOS interface, the Finder, has been optimized for the PowerPC chip. But not all of MacOS 8 has been made PowerPC-native, meaning some operating system functions still use slower, emulated code. Although the Finder interface is faster, some operations (like copying files) actually take longer than with earlier versions of the operating system—as much as 50% longer.

Other Finder features include the ability to put an image on the Desktop without the need for an extra utility, and a new appearance manager for fine-tuning the system's look.



Top: The MacOS 8 desktop showing multitasking; Bottom: Picking colors with "crayons."

Viewing files in the Finder is a better experience, thanks to several useful new options. A spiffy shaded list view makes for easier reading, and file dates are displayed relative to today's date (such as "Yesterday, 3:02 PM"). Sticky menus, in which menus lock open with a single click, is a bit disconcerting at first, and a bit too Windows-esque for some tastes. A new view option, Button View, displays the contents of any window with launcher-style one-click but-

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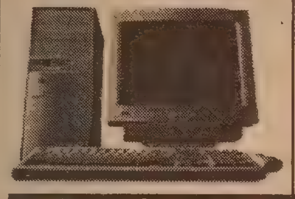

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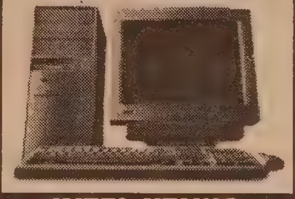

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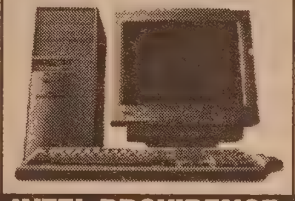

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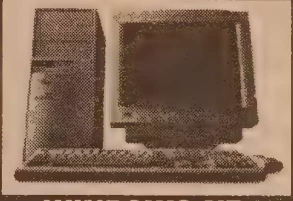

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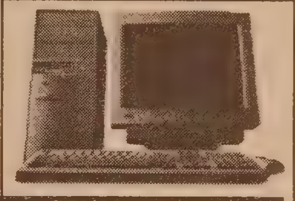

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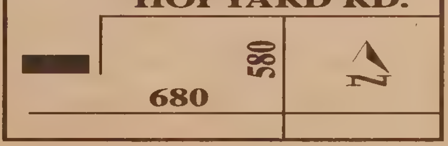

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MacOS 8 *continued...*

tons. Context-sensitive pop-up menus are just a control-click away: For example, if you control-click on a folder icon, a menu appears giving you the choice of trashing it, getting info about it, making an alias of it, changing its file-sharing status and so on.

"Spring-loaded folders" are a welcome (although hard-to-describe) addition, allowing you to access folders-within-folders without all that tedious double-clicking. Just point at a folder and it will spring open; move the cursor away and the window promptly closes again. For neophytes, the Simple Finder option simplifies life a little by eliminating obscure and seldom-used commands from the Finder's menus.

The new operating system serves up a gaggle of other features. An updated version of QuickTime that supports MPEG playback, bug-fixes in Open Transport that protect Mac Internet servers from the "ping of death," and MacLink Plus v9 grace the addition. The color picker (you know, the color wheel available in graphics programs) is more useful—allowing you to specify colors by their HTML or RGB index values—and more fun—allowing you to pick your color from a box of on-screen crayons.

Perhaps more important than what it does do is **what it doesn't do** (much, anyway): **crash.** The operating system is very stable, and when things do go awry, there's a better chance that **you'll be able to save** your work before restarting.

MacOS 8 offers better integration with the Internet, including a Setup Assistant for simplified configuration of Net access, and bundled client software. Netscape Navigator, Microsoft Internet Explorer, Claris Emailer and other clients are included, as well as Apple's own Cyberdog 2.0 Internet tools. The MacOS 8 installation also includes Java, PointCast Network and Marimba's Castanet "push" clients, a hearty collection of Internet tools. The Personal Web Sharing feature makes setting up a quick and dirty Web server a snap for sharing information on an intranet or the Internet.

Perhaps more important than what it does do is what it *doesn't* do (much, anyway): crash. The operating system is very stable, and when things do go awry, there's a better chance that you'll be able to save your work before restarting.

System Requirements

MacOS 8 demands more computing power that previous versions. With this release, Apple has stopped supporting Macs that use the 68030 and earlier processors. To run version 8 you need a 68040 or PowerPC machine (a real one—an older machine with an upgrade card won't do), at least 12MB of physical RAM (with virtual memory set to at least 20MB), and mondo disk space: about 65 MB for a minimum install and 130 MB for a complete installation. Those are some hearty system requirements that will leave users of older Macs in the dust. ■

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Business Solutions

The Failure Of Team-Building *continued from page 102*

from subcontractors. In this way, cross-boundary teams are self-forming, without waiting for management to assign people to projects.

Teams involve just the right people at just the right time (not a fixed group for an entire project), since everybody gets precisely the help they need whenever they need it. In other words, teams are not predefined, but rather people join teams for specific periods of time based on the unique needs of each project. In other words, the organization always deploys its talents in the optimal way.

Since everyone knows just what help they need from their subcontractors, everyone automatically plans the most efficient work flows. This approach to teamwork is much more powerful than appointing a few "process owners" who disempower others by telling them how to do their jobs. And it's much more flexible than a single business process for every occasion (as in business process reengineering). The result: processes are dynamic, and tailored to the needs of each project.

When teams form as a result of contracting for specific deliverables, people within the team are clear about their accountabilities. Furthermore, the chain of command is well established since everyone knows who their customer and suppliers are. Thus, there is no confusion about who's in charge. Also, contracting for specific deliverables (rather than just "join my team") makes managing large projects much easier by distributing the project-management responsibilities, since team members manage their own pieces of the project. As a result, teams are self-managing.

The Systematic Leader

Real leaders don't form teams. If they did, they'd be bottlenecks to teamwork.

Real leaders don't cajole people into liking one another or inspire a spirit of cooperation. It's inappropriate to ask people to team when doing so is against their best interests.

Just as road signs can either clearly direct you or lead you the wrong way, organizations either guide people toward high-performance teamwork or create chaos. There are no "silver bullets" that will induce teamwork overnight. All five systems are at work in every organization all of the time. To build effective teamwork, a leader must align personal success with team success in all five systems.

In short, real leaders design teamwork into the fabric of their organizations. ■

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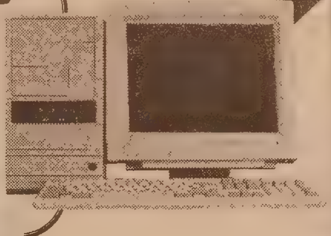

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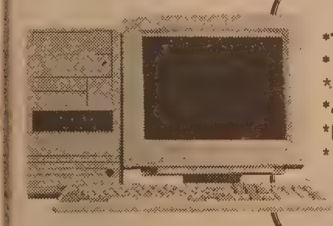

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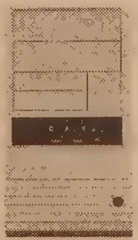

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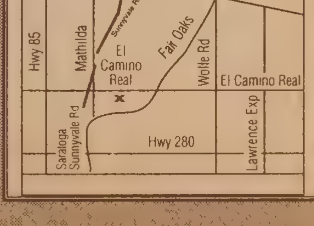

BMUG • By Peter Linde and Sam Penrose

BMUG Column, v2.0

A Re-Introduction

Welcome back to the BMUG column, where all matters Macintosh are discussed from a user perspective. For years, *MicroTimes* readers have enjoyed, in this space, the insights and musings of David Morgenstern, industry analyst par excellence at *MacWEEK*. We at BMUG thank him for his years of dedicated service and his continued volunteer efforts, and wish him the best as his career continues to flourish.

As this is a new start for the BMUG column, it seems like a good time for a re-introduction.

What's A BMUG?

Ask fifty different people what BMUG is, and you will get fifty-one different answers. Trying to define BMUG reminds me of the parable of the five blind men each feeling a different part of an elephant and trying to describe the whole animal from their limited samples. So let's start at the basement level with the most literal interpretation of what BMUG is and work our way up from there.

BMUG is a 501(c)3 educational nonprofit, consumer advocacy group, organized to share information and provide critical direction to users and developers in the computer community worldwide. At least, that's what the mission statement says. It is also a staff of about twelve, 200-400 core volunteers, and 10,000 members in all fifty states and over fifty countries.

BMUG, now in its thirteenth year, is the largest Mac users' group in the world. The name used to stand for "Berkeley Macintosh Users' Group," but as our membership has become worldwide, it's now just plain old BMUG, Inc.

BMUG produces a 400+ page semi-annual "Newsletter" filled with information by and about Macs. (You will find a detailed write up of the upcoming *BMUG Newsletter* at the bottom of this article.) BMUG maintains three FirstClass® graphic user interface BBSes: Planet BMUG in Berkeley, BMUG Boston in Boston, and BMUG Japan in Tokyo. All are accessible via direct modem dial-up, as well as via the Internet.

BMUG is a meeting place for those interested in just about every aspect of using a Mac. It's power-users and newbies. It's those who write programs and those who use them. It's producers of knowledge about the Macintosh and computers in general, and consumers of that information. It's a free, volunteer-staffed technical support Helpline. It's a place to get RAM installed or a dead hard drive resurrected. It's a place to share what you know while sharing in what someone else knows.

You can find out a fair price for that old used Mac of yours, or find the old version of MacWrite you were looking for. You can get the latest shareware (virus tested, of course!), from BMUG's floppy disk library, the latest version of our world famous PD-ROM®, or from one of the BBSes. Perhaps you need to find the answer to an obscure technical question. Maybe you need the help of a fellow programmer in order to finish your latest C++ project.

Surrounding all the things that BMUG is, all the services it provides, all the products it produces, is the community that both creates and is created by BMUG. Friendships, marriages, children, inventions, applications, and businesses have all sprung from the BMUG community.

Many have used BMUG to help launch a career in the high-tech world. One of BMUG's founders was Reese Jones, who went on to found Farallon. In fact, the Farallon Phone-Net Connector® was invented at BMUG. More than a few editors of Mac periodicals got a career push from experience gained and contacts made at BMUG.

The high-tech world is strewn with BMUG members. Guy Kawasaki, the supreme Mac Evangelist, became a lifetime member last year. So did scientist, spy catcher and author Cliff Stoll. BMUG volunteers have moved on to jobs at Apple, Microsoft, Claris, Dantz, Hewlett-Packard, Adobe, APS, Power Computing, FWB, Global Village, Netscape, Aladdin, MSNBC, *MacWEEK*, *Macworld* and *MacUSER* magazines, etc. We are, truly, everywhere.

What's New At BMUG?

Last year was a difficult one for many users' groups. The largest users' group in the world, The Boston Computer Society, or BCS, went out of business. NYMUG, The New York Macintosh Users' Group went under and was reborn as a for-profit entity.

Many trumpeted the death of the users' group:

"Sure, users' groups served a purpose in the 'old days.'"

Many trumpeted the death of the users' group. The theory went like this: Sure, users' groups served a purpose in the "old days." But now, with the World Wide Web, Contextual Help built right into the operating system, shareware and freeware easily found on the Internet, users' groups no longer serve a purpose.

Great theory. Totally ridiculous.

Users' groups are still as vibrant and useful as ever. Maybe even more so. As proof, during the same period that users' groups were supposedly dying, BMUG grew its membership by close to 30%. We came out with new cutting-edge products. PeachPit Press began to distribute our *Newsletter* nationally.

We are now conducting low-cost seminars on various Mac issues and the seats fill up almost when we announce the dates. Our Beginners SIG and our Claris SIG, led by wonderful volunteers Doug Bourquin and Thomas Benner respectively, are packed to the gills every time they meet.

The Web and the Net only make the need for a good users' group greater. BMUG was started because there wasn't enough information. People gathered together to share knowledge and help each other figure out how to get the most out of their Macs. Today, BMUG helps its members sort through the vast proliferation of garbage on the Internet and elsewhere and get to what is best for and about the Macintosh.

Each month in this column, in addition to tips, rumors, gossip, and opinion, we will highlight a particular BMUG service, product, or volun-

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Power Mac 9600/233,32/4G/CD	3495	132
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teer so that you can get to know what's up with BMUG and what it might hold for you. This month's feature is written by BMUG volunteer and co-author, Sam Penrose. Penrose has scoured the proofs of the upcoming fall *Newsletter* that will be released next month in order to bring you this review.

Newsletter Or Phone Book?

Some BMUG members use the BBSes daily, some go to main meetings, and some value the product discounts, but every member receives the *BMUG Newsletter*. The *Newsletter* is a large format book we publish twice a year. Unlike most computer periodicals, the *BMUG Newsletter* contains no ads and only modest graphics. Its 400 pages are devoted to dozens of articles by dozens of BMUG members. This diversity makes our *Newsletter* uniquely valuable.

The ideal computer writer obviously knows computers well, but they must understand the task for which they are using the computer even better. BMUG's 10,000 users from around the world draw on a range of life and computer experience far beyond that of conventional resources.

Consider the contributors to the *Newsletter's* language software section. Judith Bode, who has been teaching German since 1974 and now runs a college language lab, discusses a translation game that she has used for her classes. Her article states, "Because no provision exists for the computer to accept a variety of translations for a given sentence, the program should be limited to short and relatively simple sentences; it then becomes ideal for junior high and early high school students and can also be used as an adjunct to the early stages of adult language learning. ... Students have a way of memorizing the examples in programs like these, and if an instructor has time to develop additional sets of sentences, it will enhance the value and life of the program." Bode focuses not on the program's features but on how to teach with it, which is the point of the exercise.

During the same period that users' groups were supposedly dying, **BMUG grew its membership by close to 30%.** We came out with new cutting-edge products. **PeachPit Press began to distribute our *Newsletter* nationally.**

Paul Attinello's long review of Globalink's translation programs relates how a writer used them in his work.. He writes, "...those of us who do academic work...in a number of (half-known, briefly studied) languages know that the most tedious work of translation isn't...[finding] the real meaning of a passage, it's simply looking up word after word, hacking one's way with a dictionary through sentences that one almost understands without it.

continued on page 150

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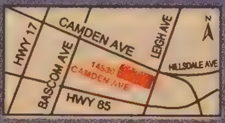

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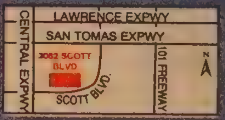

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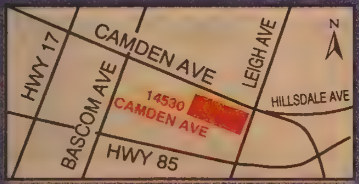

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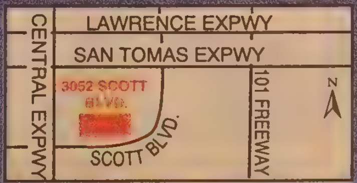

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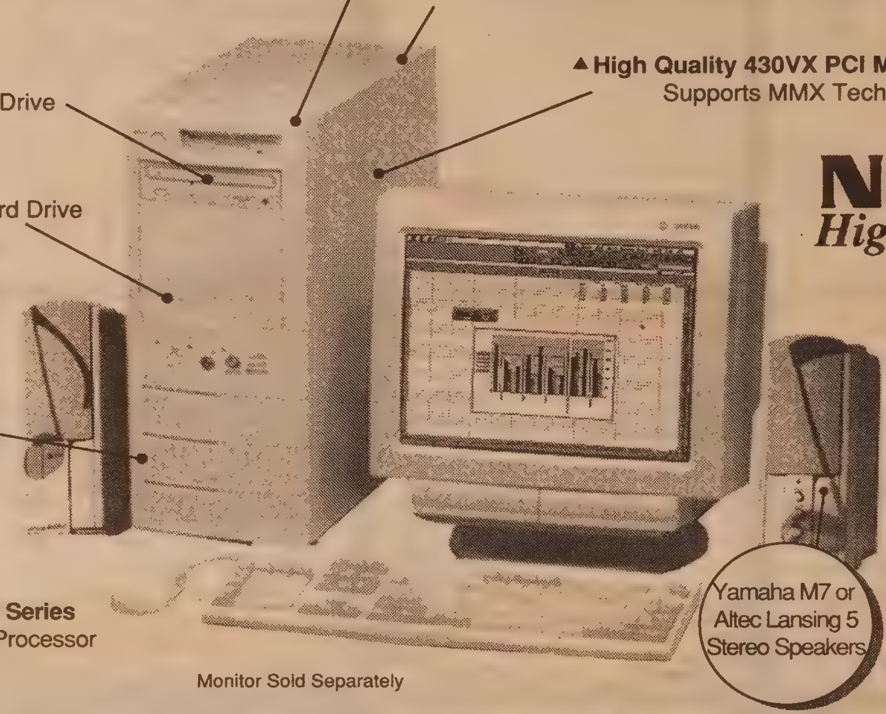
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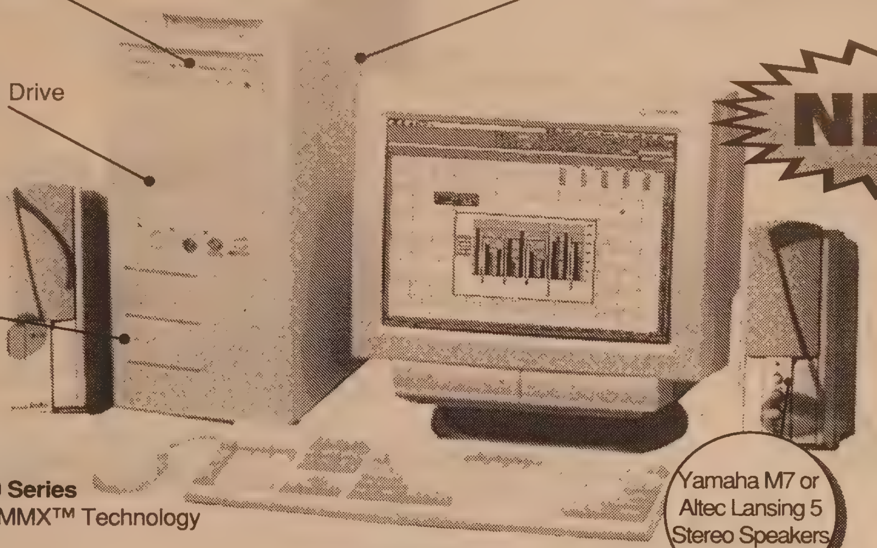

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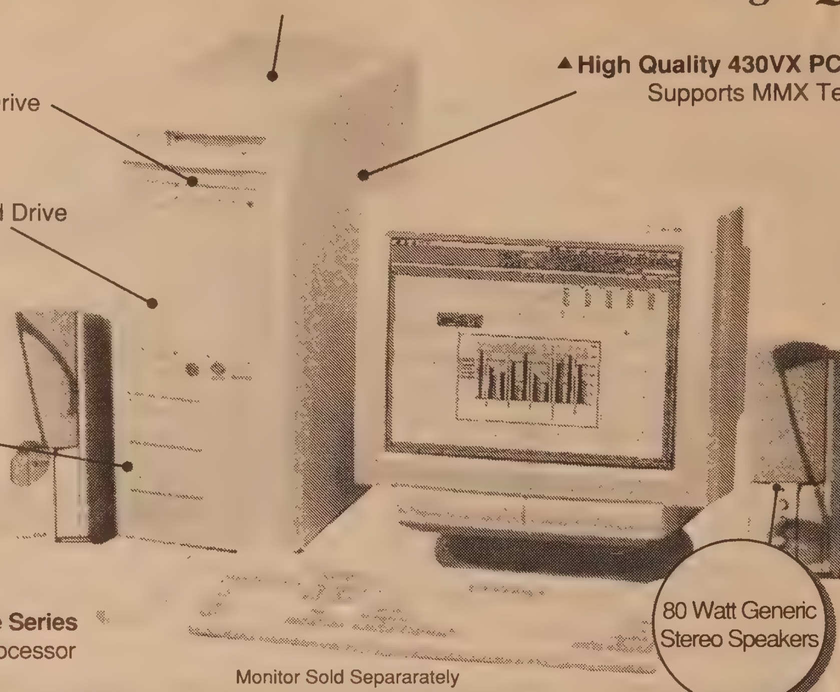

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- 2MB DRAM PCI Video Card
- 33.6KBPS Internal Fax/Modem
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- Microsoft Windows 95 Software
- Includes Video Teleconferencing software
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233MHz AMD K6

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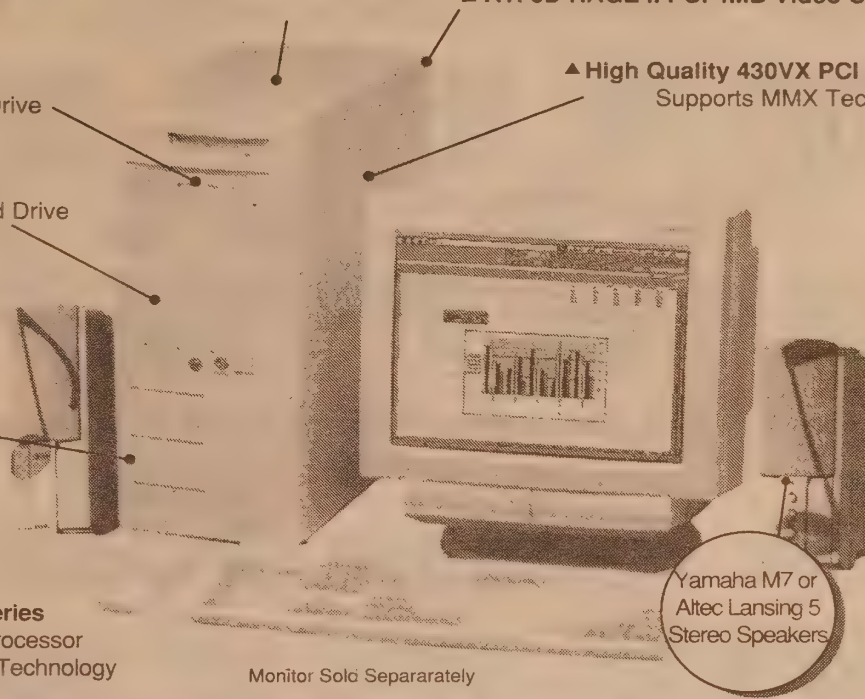
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with plenty of room for expansion
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AMD K6 MMX™ ENHANCED PROCESSOR

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AMD233MHz K6® Processor
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233MHz AMD K6® MMX™ Enhanced Processor

4.0GB/32MB EDO RAM Multimedia Computer System
24X Speed CD-ROM - 512KCache - 56K FAX/MODEM

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- 233MHz AMD K6® Processor with Enhanced MMX™ Technology and Cooling Fan
- High quality PCI 430VX motherboard, supports MMX™ Technology
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- 4.0GB Enhanced IDE hard drive
- 24X - Speed enhanced IDE CD-Rom
- 16-bit Wavetable sound card
- ATI 3D RAGE II 4MB Video Card
- 56K Internal Fax/Modem
- Yamaha M7 or Altec Lansing ACS5 stereo speakers
- 1.44MB floppy drive
- Win 95 Keyboard, MS Mouse
- Microsoft Windows 95 Software
- Includes Video Teleconferencing software
- 1 year parts and labor warranty
  Monitor Sold Separately

NOW INCLUDES WINDOWS 95 v.2.01 SOFTWARE w/USB Support

AMD K6® 233MHz
with **Enhanced MMX™** Technology

$1599

Monthly Payment $48/Mo.**

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4.2GB Ultra SCSI 3.5" HARD DRIVE
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yes NetWare Tested and Approved

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16-Bit ISA-IDE Floppy & 250 Tape Controllers Card

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- Support 2 IDE hard drives of any capacity up to 8.4GB
- Easy installation as on-board Flash BIOS auto installs IDE hard drives
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32-Bit VESA Extender For GSI-ISA Controllers

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NEW

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- No need to reformat hard drive
- Compatible with all major operating software
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GSI Model 2C

NEW

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- Upgradeable to 32-Bit using GSI VESA Extenders
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High Speed Multiport Controller Card

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32-Bit VL-To-Fast SCSI & VL-To-EIDE Host Adapter

Total Advantage VL/AVA-2825

- Connect up to 7 SCSI devices
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280VA

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4X write & 6X Read!

- 6X read/4X write
- 2MB internal cache
- Includes recording software

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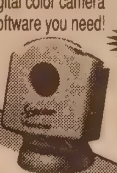

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- Includes powerful easy to use software
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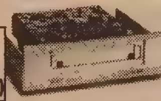

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540MB Syquest Compatible Removeable Drive

External SCSI or Parallel Port

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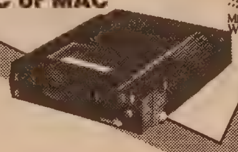

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Clear Sound ,Easy to use

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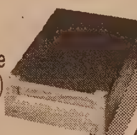
C1534A



- 2GB of Data on a single cartridge
- Avg. 50secFind File(Fast search)
- 183kb/sec transfer rate
- Uses 60 & 90 meter cartridge
- Compliant with all DOS DAT drives

$549.95

HEWLETT PACKARD
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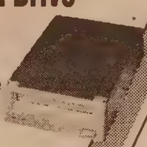

- 4GB of Data on a single cartridge
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- 366kb/sec transfer rate
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High Quality Floppy Drive

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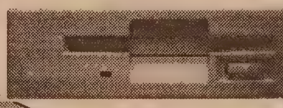

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- Enhanced IDE
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5702B NEW

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- 115ms access time
- 256K Cache
- Enhanced IDE
- OE M

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BTC
12-Speed Internal IDE CD-Rom

BCD-12X WOW!

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- 120ms access time
- 128K Cache
- Enhanced IDE

MICROSOFT. WINDOWS.

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- 8 satellite drivers and powerful 40 watt subwoofer
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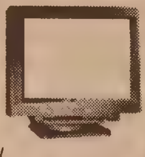

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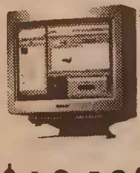

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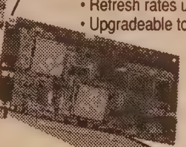

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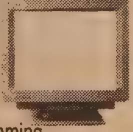

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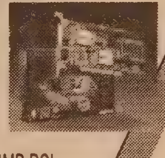

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BMUG

continued from page 138

"In some cases, it is possible to get from the raw output to an accurate translation by employing a few relatively simple steps; if that is not possible, the program[s are] not worth using.... Translating French shouldn't be terribly difficult... [yet,] French PowerTranslator... is the only one of the programs I have deleted from my hard drive as completely useless. Fortunately, French Assistant is helpful enough for simpler texts, and... also great for translating surrealist poetry, as the computer isn't fazed by nonsens[e].... It is a surprise that, again, the [high-end] Power Translator program didn't know words that were no problem for the [low-end] Assistant program.... Certainly these programs helped me a great deal while I was finishing my dissertation, and for that I am, with some reservations, grateful."

Nor does the *Newsletter* skimp on computer-oriented topics. Consider David Scott's review of the popular ATI Xclaim VR video card. Scott doesn't compare it to eight other cards the way a magazine would, but he more than compensates with hundreds of words on each aspect of the card's use. Where a standard review might tell you that the ATI control panel is powerful but complex or that getting the card to work with various capture utilities is problematic, Scott walks you through all the details as he encountered them. My owner's manuals should be so useful.

In another section, Bruce Linde tells the story of how he learned scripting. He was using the find-and-replace feature of a word processor to help turn a FileMaker Pro database into a Web site, but it was still taking way too long. A scripting expert told him it would be no problem to perform the same task with AppleScript, which Linde later discovered "meant no problem for him." Linde goes on to list books read, tools tried out, first attempts at doing something useful, and the key realization that "despite the fact that AppleScript code reads almost like English, the emphasis in the sentence is on 'almost'..." After two months, he ends up getting a job doing Javascript.

I have been reading about scripting for years, but this essay gave me a much better sense of the costs and benefits of learning to script than all the rest of it put together. Scripting is usually portrayed as a power user trick; thanks to Linde I understand that it's closer to other kinds of programming in its learning curve and potential for gainful employment. (Full disclosure: Linde happens to be my co-author's brother.)

The four articles mentioned above represent perhaps 5% of the *Newsletter's* content. The complete table of contents would fill much of this column. A few more highlights:

- An exhaustive introduction to MacOS 8 by a team of beta testers; the contributions of BMUGers who work for Apple makes it, if anything, more critical than what I have read in the press.
- A thorough dissection of Apple's plans for Rhapsody by respected shareware author John Norstad.
- A guide to general Mac troubleshooting.
- Tips on squeezing use from limited RAM.
- QuickTime tips.
- Reviews of many Mac products.
- A comparison of Microsoft's $55/call technical support with the $4/minute Psychic Friends Network for Microsoft Access troubleshooting. (Guess who turns out to be the better deal?)
- A section on Healthy Computing with two first-rate articles on Repetitive Stress Injury: one by a professional, the other by a sufferer.
- A half a year of BMUG *MicroTimes* columns.
- BMUG's Choice Products section.

The last deserves special mention. There's hardly a magazine, trade show, or industry association that doesn't promote a list of best products, but the *Newsletter's* is different. At just over 300 items in dozens of categories, it's big enough to list twelve books, thirty-three games, forty-three pieces of software for kids, and twenty-two multimedia titles for grownups, plus lots and lots of stellar products in obscure categories like printing supplies, computer insurance, and rendering.

Service and reliability count for a lot in our picks, and we judge them on the long-term experiences of our members, not on two calls to tech support or whether a review unit still worked after we knocked it off the desk. There is something in the *Newsletter* for anyone who uses Macintosh computers. A year's membership in BMUG includes two issues, plus much, much more. Join us! ■

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What Is BMUG?

BMUG is an educational nonprofit computer user group providing know-how, software, and opportunities for 10,000 computer users from countries around the world. We are in the business of giving away information.

BMUG publishes and distributes some of the best computer books and CD-ROMs available. Our semi-annual 400-page "Newsletter," sent to every member, contains scores of articles on every facet of Macintosh computing, the Internet, and more, plus hundreds of megabytes of useful software on the included CD-ROM, all without a single advertisement. Our three BBSes are thriving virtual communities where thousands of people share information about everything from how to defragment a hard drive to how good the latest Emma Thompson movie is, all presented through the friendly FirstClass user interface.

The BBSes also offer access to much of our constantly updated software library. BMUG offers volunteers a broad range of opportunities to learn valuable skills while helping people and having fun. We support over a dozen free Special Interest Groups aimed at everyone from complete beginners to professional programmers, where any member of the public can come to get questions answered. Members can make appointments with our valiant volunteer hardware gurus to get memory installed or mysterious problems examined.

You can learn more about us on our Web page at *http://www.bmug.org* , where you'll find schedules, maps, our guide to the best products for MacOS and general computing, and software and instructions you can use to take a free tour of our Planet BMUG and BMUG Boston BBSes, available by direct dial or over the Internet. Our office at 2055 Center St. in downtown Berkeley is open from 9am to 5pm. Come say hello there or at one of our meetings: weekly on the UC Berkeley campus and monthly in San Francisco and San Jose. For more information, call the announcement line at (510)549-2684, ext. 8. You can also fax us at (510)849-9026 or write us at 1442A Walnut St. #62, Berkeley, CA 94709-1496. Join us!

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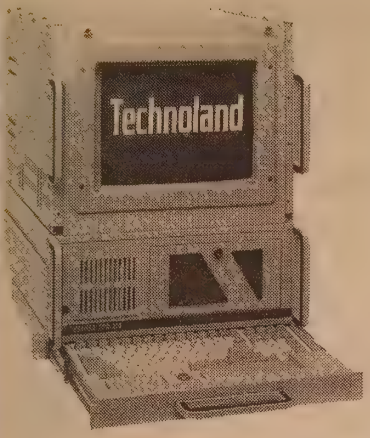

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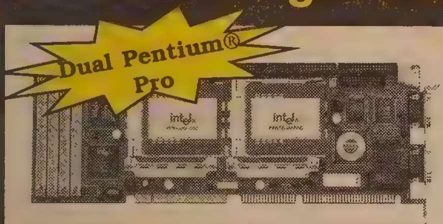

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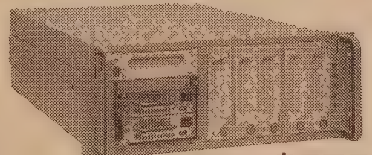

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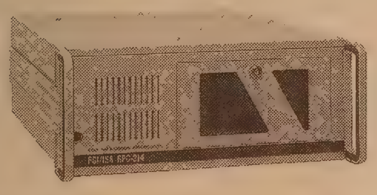

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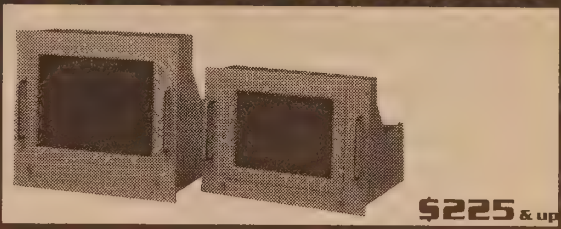

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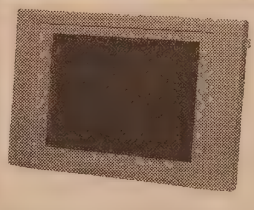

- No Radiation & No Sparkle
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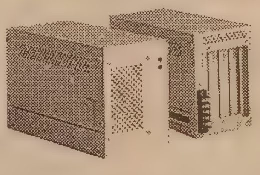

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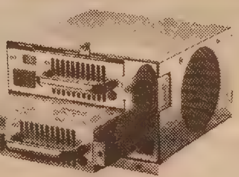

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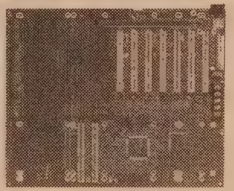

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US Robotics 56K Int. w/Voice	180
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Impression 15" NI 1280x1024 .28	245
Sony 15" 1280x1024 .25	345
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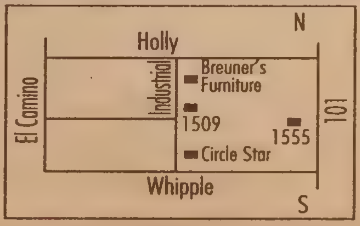


Online Guide

INTERNET • BY JOHN S. QUARTERMAN

Location-Independent Work

Internet Enables Do-Anywhere Careers

"Shipbuilders are like beekeepers," I say to Ole at the speakers' reception in Tokyo's Makuhari Messe.

"How's that?" Ole Jacobsen of Interop (*http://www.interop.com*) inquires bemusedly.

"That's how you got to live here in Japan when you were young even though you're from Norway: Your father was a shipbuilder."

"Yes, it was an occupation that was in demand, and he got to travel the world. But bees?"

"Grete Pasch of Guatemala has a German name, because her father was a beekeeper."

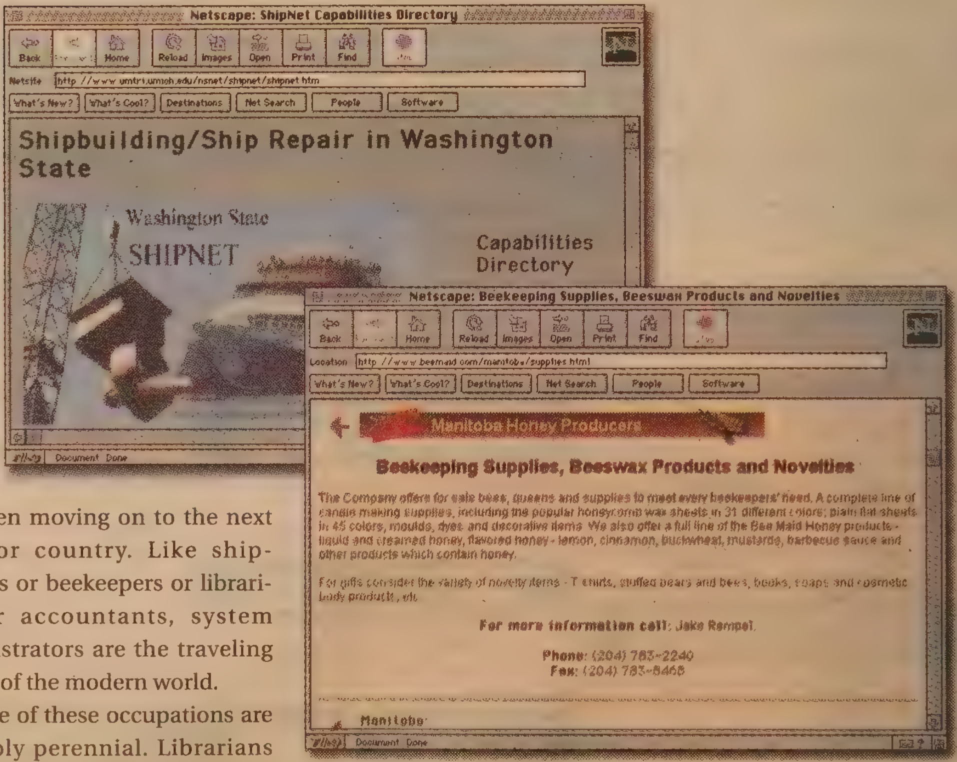
"Ah, and that's something he could do anywhere."

"Right, and he ended up in Guatemala, where she grew up."

Universal Occupations

When I was discussing this with Pasch in Austin last week, we came up with a few other similar occupations, including librarian or accountant.

What started us on this topic was the search MIDS *(http://www.mids.org/)* has been conducting for a system administrator. It's a seller's market right now, because the expansion of the Internet has made more jobs than there are people to fill them. So a good and reasonably sociable system administrator *(http://www.usenix.org/sage/)* can get a job practically anywhere in the world at good pay—and there's no stigma attached to keeping a job a year or two and then moving on to the next state or country. Like shipbuilders or beekeepers or librarians or accountants, system administrators are the traveling tinkers of the modern world.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For more information call: Jake Rempel.

Phone: (204) 783-2240
Fax: (204) 783-8468

Some of these occupations are probably perennial. Librarians the world over use only a few major cataloging systems (Dewey Decimal, Library of Congress, etc.) and the basic skills are similar in any location. Accountants will always be in demand, and the basics of good bookkeeping have been the same worldwide for a couple of centuries now.

Other occupations are always going to be localized. Lawyers, because laws vary so much by location. Doctors to some extent, because while the basics of the profession are universal, there are copious local licensing requirements and local variations in practices. Schoolteachers are mostly localized because such subjects as local history or proper native language teaching really need locally trained teachers.

One woman I know was raised over half of Africa because her parents were both Marxist professors. There are extreme examples of trav-

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All New Keynote/Boardwatch Internet Backbone Index

T1 Internet Access	**29 National Backbone Providers**	**GeoNet**
Average Access & Download Speed (50 Kilobyte file)	**9.928 seconds**	**5.108 seconds – Nearly twice as fast!**
Average Service Fee	**$2,045 a month**	**Now only $1,195 a month!**

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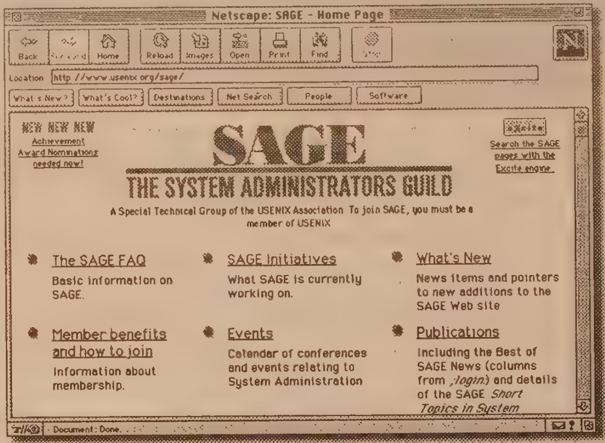
* Independent study released June 25, 1997 by Boardwatch Magazine, Inc. and Keynote Systems, Inc.

†Offer includes free use of a Cisco router (model shall be determined by GeoNet), a CSU/DSU, connector cable, and transceiver for the term of the contract with GeoNet. Equipment provided as part of this offer is and shall remain the property of GeoNet or GeoNet's lessors. Offer available throughout the Greater Bay Area. Telephone circuit installation and monthly telephone fees not included. © 1997 GeoNet Communications, Inc. All rights reserved. GeoNet Communications and ClearChannel are trademarks of GeoNet Communications, Inc. All other trademarks are registered to their respective holders.

elling professors; one of the best mathematicians in the world, recently deceased, had no permanent abode. He traveled forever from university to university, staying with fellow professors, co-authoring papers, teaching students, and constantly doing research. This probably represents the highest level of respectable itinerance. Even some lower-level occupations such as teaching English are transportable. If you are a native English speaker and you know Spanish, much of the western hemisphere is open to you, and if you know French, much of Africa. The pay's not so hot, however.

Other occupations are temporarily popular and lucrative because of industry booms. Shipbuilding doesn't have the cachet now that it once did, but a generation ago it was hot stuff. The Internet is today's ocean of opportunity, and those who know how to set companies afloat on it are much in demand. This particular boom *(http://www3.mids.org/growthinternet/)* looks set to continue for at least another three to five years in the US, longer in western Europe and Japan, and still longer in the rest of the world. We go into this in more detail in the recently released MIDS Internet Market Report *(http://www3.mids.org/market/)*.



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Travel Builds Networkers

It works the other way around, too. I don't think it's an accident that Jacobsen, one of the founders of Interop, the earliest and now the largest series of Internet conferences, and Pasch, one of the founders of nortropic.com, which provides bilingual World Wide Web service from Austin primarily to Central American customers, have international personal and family backgrounds. Peter Deutsch, co-inventor of archie and now of Bunyip *(http://www.bunyip.com)*, is originally from California, but spent a lot of time in Australia, crossed Asia by land, and now lives in Montreal. Jack Kessler of ConneXions *(http://www.interop.com/technology/connexions/index.html)* used to import string mattresses from Uttar Pradesh. The examples are endless. (In case you're wondering, I've been to more than forty countries on five continents: Hm—that leaves about 182 to go....) I can't supply quantitative data to support this thesis, but it

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3C592 EISA Combo/5-Pack	230/916
ADAPTEC ANA-6904 10BTX PCI 4-Port	497
INTEL EE Pro/10+ w/o Flash TP/5-Pk	57/264
EE Pro/10+ w/o Flash 20-Pk/80-Pk	956/3,630
SMC EtherEZ 10BT Single/5Pk	93/390
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EtherEZ Combo/5Pk/20Pk/50Pk	118/521/1,801/4,011

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3COM 3C515 Etherlink 10/100 ISA Single/5-pk	173/772
3C515 Etherlink 10/100 ISA 20-pk	2,920
3C905TX Etherlink XL 10/100 PCI Single/5-Pk	97/455
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3C597 10/100BaseT EISA/5-Pk	265/1,262
ADAPTEC ANA-6944A/TX 100BTX PCI 4-Port	829
AsanteFAST 10/100 PC & MAC PCI/5-Pk	202/970
FARALLON PN990 NUBUS/PN994 PCI	245/140
INTEL EExpress Pro 10/100 PCI/5-pk	87/414
EExpress Pro 10/100 PCI 20Pk	1,200
EExpress Pro 10/100 EISA	260
EExpress Pro 100 PCI Server card/5pk	511/2,373
SMC 9432 PCI Single/5/20/50Pk	89/420/1,620/3,604

Fast Ethernet Hubs

3COM 3C250B-TX 12 100 BASE TX Stackable Hub	1,226
12-pt Dual Speed 10/100 Hub/24 Pt	1,226/1,933
ASANTE AsanteFast 12-pt 100 BaseT Hub	1,000
COMPAQ Netelligent 1000 100BaseTX 8-port Hub	809
Netelligent 1124 24 port 100BaseTX Hub	1,496
Netelligent 1224 24 port Dual Speed Hub	1,865
INTEL Express 8 port stand alone hub 100BaseTX	480
Express 10/100 Bundle(1 Hub, 10 Cards)	1,708
Express 10/100 Stackable Hub 12-pt/24-pt	1,135/1,776
SMC EZ Hub 100 8-pt 100BTX Hub	487
TIGERSTACK 100 12-pt 100BTX SMC5312TX	1,140
TIGERSTACK 100 24-pt 100BTX SMC5324TX	1,821

Token Ring

3COM 3C319 TokenLink Velocity Single/5-Pk	***160/756***
3C339 Tokenlink Velocity PCI TR Single/10-pk	230/1,830
IBM Turbo TR 16/4 Type1/ 3 Single	216
Turbo TR 16/4 TR PCI	296
INTEL Token Express Pro 16/4 ISA	277
MADGE Smart 16/4 ISA TR card	229
Smart 16/4 PCI TR card	302
PROTEON P1394+ Token Ring 16/4/10-Pk	232/2,280
SMC Token Ring Elite 16/4 Single/12-pack	220/2,431
Token Ring Elite passive MAU 8-PT/16-PT	400/608

PCMCIA/Card Bus/Parallel Port Adapters

3COM 3C589 PC Card 10BT/COMBO	143/197
3C689 PC Card TR/5-Pk	366/1,773
3C562 PC Card Enet 33.6 Modem/Fax/5-Pk	***271/1,273***
3C575-TX PC Card Fast Etherlink XL 10/100	156
3C575-TX PC Card Fast Etherlink XL 10/100 5PK	780
IBM PC Card Coax/TP Adapter	242/261
Turbo 16/4 TR PCMCIA2 Adapter	349
INTEL EtherExpress Pro/100 Mobile 16-BIT	172
EEPro/100 Mobile 16BIT 5PK/20PK	816/3,013
EEPro/100 Mobile 32BIT SINGLE	198
EEPro/100 Mobile 32BIT 5PK/20PK	902/3,350
XIRCOM Pocket Adapter III 10BaseT	291
Pocket ENET III COMBO(BNC & 10BaseT)	325
PC Card IIPS 10BaseT/Combo/TR	150/186/378
PC Card Enet 33.6 Modem & Fax 10BT/Combo	340/380
Card Bus 10/100BTX (CBE-10/100BTX)	199

Ethernet Hubs/Concentrators

3COM SuperStack II Entry Hub 12/24	278/431
OfficeConnect 16 TP, 1 BNC	259
SuperStack II PS Hub 40 12-pt/24-pt	**8/30 383/676**
SuperStack II Hub 10 12-pt/24-pt	533/**732**
SuperStack II Hub 10 48 ports	2,196
SuperStack II 10 Mgmt Module/Redundant PS	466/1,032
Office Connect 8-pt Hub TPO/TPC/TPM	127/159/397
SMC EtherEZ 8 port TP w/ BNC	***99***
ASANTE 8-Port w/AUI&BNC/12-Ports	122/242
24-Port w/AUI	390
BAY NETWORKS CG1001E01 BayStack 12-pt	595
CG1001E02 BayStack 24-pt	982
800 8-pt /2800A 16-pt	195/572
HEWLETT PACKARD AdvStack 8-port/16-port	169/486
AdvanceStack 12-pt/24-pt	455/862
AdvanceStack Switch Module for 12-pt or 24-pt Hub	683
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$755 price reduction on the SuperStack II Switch 1000 24 ports. Now only $ 2,340.

Through Sep,30, buy a 20 pack of the 3C900-TPO or COMBO PCI 10BaseT card and get a 12 port PS HUB 40 FREE!

Limited time price reduction on the 3C562 LAN+33.6 PCMCIA card. The TokenLink Velocity ISA cards have also been reduced.

CHEYENNE

Through Sep. 30, buy Cheyenne Server Suite 3.0 for NetWare and get Disaster Recovery for NetWare FREE. A $495 value. Server Suite includes ARCserve 25 users, Inoculan, & FaxServe 5 users. Perfect for small workgroups.

The Network Peripherals NuSwitch FE200TT Plus switch allows you to seamlessly connect your existing 10BaseT network to a 100BaseTX network for only $372. The FE200TT features 2 100BaseTX full duplex switch ports for only $232.

Ethernet Switches

3COM SuperStack II Switch 1000 12 10BT,1 100BTX	1,715
SuperStack II Switch 1000 24 10BT, 1 100BTX	2,340
SuperStack II Switch 3000 12-pt 10/100 Switch	2,340
SuperStack II Switch 3000 8-pt 100BTX	2,058
SuperStack II Switch 3000 5-pt 100BFX	6,022
SuperStack II Port Switch Hub 12-pt/24-pt	805/1,209
SuperStack II Desktop Switch 24TP,1 100BTX	1,700
OfficeConnect Switch 140 4-10BT,1-100TX	949
ASANTE ReadySwitch 4 RJ45, 1 Fast Ethernet	1,253
BayStack 301 22 10BT, 2 100BTX	2,727
BayStack 302 8-10BT, 1-100BTX	1,772
BayStack 350T 16PT 10/100BaseTX switch	2,723
CISCO CATALYST1900 24 TP,1-100BTX,1-100FX	3,525
CATALYST 1900 24 10BaseT,2-100BTX	3,083
HP AdvanceStack Switch208 8-10BT,1-100BTX	1,121
AdvanceStack Switch224 24-10BT, 1-100BTX	2,032
AdvanceStack Switch2000 12 100BTX	1,751
INTEL ES101TX 8 PORT 10/100 Switch	2,191
ES101MATX 2 PORT 10/100 TX module	1,026
NPI Nuswitch FE200TT 2 100BaseTX Full Duplex	232
FE200TT PLUS 2 10/100 Autosensing switched ports	372
FE200TF 1 100BaseTX, 1 ST Full Duplex	528
FE200TP PLUS 1 10/100 TX & 1 10/100 FX	697
2-100TX, 10-10BT/1-100TX, 5-10BT	1,888/761
5-100TX, 12-10BT	4,434
2-100TX, 24-10BT/6-100TX Full Duplex	1,360/1,523
SMC EZSwitch Plus 6-10BT, 2 100BaseTX	958
TigerSwitch 100, 8 port 10/100BaseTX switch	2,187

Tape Backup Solutions

CHEYENNE ARCserve v6.0 NLM 10 Users	271
ARCserve v6.0 WRKGRP-Up to 25/Over 25	400/1,156
Changer Option for ARCserve/Push Agent	423/300
Windows NT Agent for ARCserve	330
NetWare Svr Suite/Open File Agent for NetWare	615/426
SEAGATE Backup Exec 1 Server 25 Users	354
Backup Exec Single Server/NetWare Ent NLM	497/1,007
Backup Exec Autoloader Option	432
Backup Director NLM 1 SVR/Multi-Server	727/1,164
Storage Manager Single Server 25 Users	733
Storage Manager Single Server/Multi-Server	1,435/2,538
STAC Replica for NetWare/Multi-Server Option	419/713
EXABYTE EXB-8700LT 8mm 7-14GB drive only	1,060
EXB-8700 8mm 7-14GB w/ Server software	1,406
HP C1554 DDS3 4mm 12-24GB DAT Int/Ext	1,415/1,565
C5647 72-144GB DDS3 autoloader	2,780
C1559 Surestor Ext 72-144GB DDS3 autoloader	3,641
C1536 DDS 4mm 2-4GB DAT Int/Ext	635/785
C1599 DDS2 4mm 4-8GB DAT Int/Ext	840/990
C1553 24-48GB Autoloader Int/Ext	2,230/2,530
SONY SDT-9000 4mm DDS3 24GB Int/Ext	1,418/1,1506
SDT-9000 w/Arcserve Enterprise Int/Ext	2,379/2,432
TECMAR WangDAT 3900 DDS3 12-24 GB DAT Int	1,320
WangDAT 3900 DDS3 12-24 GB DAT Ext	1,440

Remote Access

3COM Office Connect Boundary Router 3C8841	1,247
Office Connect Remote 510 ENET,ISDN	586
Office Connect Remote 520U ENET, ISDN, POTS	733
Office Connect Remote 530U ENET, ISDN, ASYNC	1,100
ARTISOFT InSync Modemshare 1/2/4/8Pt	108/187/348/592
CISCO 2501 1 ENET, dual serial router (software req)	1,906
2514 2 ENET, dual serial router (software req)	2,340
DIGI LANAserver 2E 2 Async	1,290
LANAserver 6E 4 PCMCIA slots; 2 Async	2,152
LANAserver 8E 8 Async	2,588
LANAserver 10E 8 PCMCIA slots; 2 Async	2,896
EMULEX Connect Plus 2 ports/8 Ports	784/2,417
NOVELL NetWare Connect 2	309
NetWare Connect 8/32 pts	1041/3,405
NetWare Connect 2-port w/Modem and Serial I/O	845
NetWare Connect 8-port w/Modem and Serial I/O	2,912
HEWLETT PACKARD AdvanceStack Dial-A-LAN Modules	
2A/Plus Module and SNMP Bundle J2633A	1,476
4A Module and SNMP Bundle J2634A	1,476
SHIVA Netmodem/E 28.8	871
AccessPort/D Enet ISDN router	690
Lanrover/E Plus w/2 Async ports/4 Async	1,334/3,311
Lanrover/E Plus w/2 v.34/8 PT w/4 v.34	1,771/4,164
Lanrover/E Async 8 Async/8 v.34 modems	3,655/5,355
DIGI INTERNATIONAL Digi 2-Pt/4-Pt/8-Pt	200/455/588
Acceleport 8EM w/RISC CPU, DB25 ISA/PCI	673/673
Paradyne 3150 T-1 Frame Relay CSU	1,157

ISDN Connectivity

3COM Impact IQ 3C882	334
ASCEND NetWarp 128 ISA Terminal Adapter	174
NetWarp Pro w/ POTS port	282
Pileline 15 w/ 2 POTS ports NT1	325
Pipeline 25-FX Bridging/ IP or IPX	480/721
Pipeline 50 w/NT1, COMP, IPX,IP	634
Pipeline 75 Multi w/NT1, COMP, IPX, IP, 2 Analog	703
Pipeline 130 w/FT1,T1,ISDN	1,386
Pipeline 130 ISDN & L56/SW & L56	1,342/1,412
Max 200 Plus w/4 BRI Cards	3,043
Max 1800 8BRI-16 users w/NT1	5,216
CISCO 762 ISDN Rtr/Cisco 766 w/2 Analog Pts	544/668
Cisco 772 4-10BT/Cisco 776 4-10BT, 2 Analog	668/794
Small Office/Home Office Sw 4 users, COMP, IP, IPX	134
Remote Office Sw 1500 users, COMP, IP, IPX	251
DIGI DataFire U Client ISDN (PPP)	398
DataFire Server S1 Server-Based ISDN	536
PC-IMAC ISDN	533
PC-IMAC Multiport ISDN/4-1/4-2/4-4	672/1,064/2,092
MOTOROLA BitSurfr PRO ISDN TA w/NT1 w/2POTS	333
SHIVA Lanrover/E Plus 1-BRI ST, v.34, 3 CHAN	1,918
Lanrover/E Plus 2-BRI ST, 4 Channels, Enet	2,075
Lanrover/E Plus 4-BRI ST, 8 Channels, Enet	4,760
US ROBOTICS Sportster ISDN adapter	224
DataBurst Ext. Parallel Port ISDN w/NT1	275
Courier-I Modem w/V.34 w/Analog Int/Ext	260/311
Courier-I Modem w/ISDN/V.34 w/o Analog Int/Ext	326/354

Internet Solutions

3COM OfficeConnect Gateway 535 ISDN IPX to IP	1,468
BAY NETWORKS 20 Usrs 1 Enet w/33.6k	1,896
Instant Internet 20 User, 2 Enet w/ 33.6 modem	2,086
Instant Internet 20 Users, 1 Enet w/ ISDN	2,200
Instant Internet 20 Users, 2 Enet w/ISDN	2,403
Instant Internet 10-User Add-On Pack/30 Users	379/2,734
100 Users w/ Dual-Enet & DDS support	3,657
100 Users w/ Dual-Enet & T1 CSU/DSU	3,029
CISCO Microweb Server	907
FARALLON Netopia Internet Router IP/Appletalk	1,061
Netopia Internet Rtr TCP/IP 12-Users/.Unlimited	752/874
HP AdvanceStack Internet Router module J3138A	2,898
RAMP Networks WebRamp Entre	681
WebRamp IP ISDN Router/IPX Router	606/1,169
WebRamp M3 IP Rounter w/ 3 Serial ports	349

Network Printing Solutions

3COM Office Connect Print Server (2P)	340
CASTELLE LANpress 3P/100 (10/100BTX)	***352***
HEWLETT PACKARD JetDirect 10BT MIO	339
JetDirect Combo MIO BNC/10BT	400
JetDirect Card for 10/100Base-TX J2556B	407
JetDirect Ethernet EX Plus/ EX Plus 3	299/414
JetDirect Token Ring EX/EX Plus3	567/682
INTEL Netport EL Ethernet/Token Ring	422/588
NetportExpress XL for Ethernet/TR	415/565
NetportExpress Pro 10BT Int(MIO)/3 Pack	175/747
NetportExpress Pro 100 10/100BTX 2P/1S/3Pk	396/1,079

Network Fax Solutions

3COM Office Connect Fax Server (1L)	1,277
CASTELLE FaxPress 1500 1-Line/2-Line	1,970/2,365
Faxpress 3000 2-line/FaxPress 3000 4-line	2,948/3,574
Faxpress 3500 2-line/FaxPress 3500 4-line	3,196/3,762
FAX-IT-BACK Software	799
CHEYENNE FaxServe NLM 5/10/25	393/717/1,177
FaxServe NLM 50/100	1,816/2,533
FaxServe NLM 250	3,801
ZOOM Multiline 8 slot w/4 fax modems, hot swap	937
SYMANTEC Net Satisfaxtion 25/1000 users	742/990
Winfax Pro for Networks 5/10/25/50	384/ 640/1,478/2,738
Starter Kit (1 Server, 2 nodes)	258

Network CD-ROM

3COM OfficeConnect CDROM server	650
MICROTEST Discport Ethernet/Token Ring	410/791
Discport Pro w/ Discview ENET/TR	791
Discport XL ENET w/Discview Pro	779
Discport w/ 4CDROM in 7-Unit Tower	1,516
Discport w/ 7CDROM in 7-Unit Tower	2,008
Discport XL w/ 4CDROM in 7-Unit Tower	1,740
Discport XL w/ 7CDROM in 7-Unit Tower	2,232

Uninterruptible Power Supplies

APC Back-UPS 400/450	163/200
Back-UPS 600/900/1250	273/392/512
Powerchute Plus for Novell/Unix/Windows NT	99/149/99
Smart-UPS 700NET/1400NET	389/671
Smart-UPS 2200NET/3000NET	1,067/1,788
Matrix 3000/5000/Smartcell	3,720/4,616/537
SNMP Agent for Novell/SNMP Mgr for Netware	125/145

Cable Testers & Supplies

ALLENTEL AT680RJ45 Crimper	50
AT10K Crimper Kit w/5 DIES & case	259
RJ45 10 BaseT Connectors (100 pak)	40
10Base-T Cable (1000' min) LV3/LV 5	100/200
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cc:Mail License 10 users/50 Users	596/2,802
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Link to UUCP/Link to SMTP/Link to MHS	372/2,473/499
MICROSOFT Mail Server + 10 Users	480
Mail 5/20/100 Users	273/930/3,633
MHS Gateway/PROFS	708/3,405
SMTP/X400/Fax Gateway	3,241/3,194/1,419
Exchange Server Single w/ 5/10/25	1,014/1,368/2,160
Exchange Server Enterprise w/25/50 Clients	4,099/5,429
Exchange Add'l Clients 5/20	366/1,160
Exchange Internet Mail Connector	498

Network Management

3COM Transcend Workgroup Mgr for Windows	461
Transcend Enterprise Mgr for Windows	2,453
HP Openview Pro. Suite	1,122
INTEL LanDesk Mgmt Suite 5/10/100 users	522/696/4,240
LanDesk Server Manager Pro	1,232
LanDesk SNMP Gateway	552
LanDesk Traffic Analyst	732
NOVELL Lanalyzer for Windows	1,021
NetWare LANalyzer Agent Multi-Segment	1,178

Network Utilities

CHEYENNE AuditWare for NDS 100/Enterprise	460/851
Directory Mgmt. Combo/Enterprise	850/1,951
InocuLAN Wrkgrp/1Svr-Unlimited w/25 clients	301/648
InocuLAN 5 Svr-Unlimited Users	2,363
InocuLAN Option v4.0 for AS 6 w/ 25 clients	313
INTEL LanDesk Virus Protect NW(Single)	1,024
LanDesk Virus Protect 4-pk/20-pk	3,460/14,438
ONTRACK Data Recovery NetWare	411
SEAGATE Prepare! Disaster Recovery SW	525

Server Mirroring

VINCA Campus Standby Server Software for NW	2,228
Standby Server NetWare/Windows NT	2,535/2,535
Entry StandBy Server/SnapShot Svr for NW	966/736
Standby Server Many-To-One	5,071

Windows NT Solutions

3COM Transcend Workgroup Mgr for NT	463
Transcend Enterprise Manager	2,353
CHEYENNE Arcserve for Windows NT v6.0, Single Svr.	490
Arcserve for Windows NT v6.0, Enterprise Edition	860
Arcserve for NT NetWare Agent	438
Arcserve Changer Option for Windows NT	365
Arcserve Disaster Recovery Option for NT	271
InocuLAN for Windows NT 1 Svr w/25 clients **8/30**	651
Open File Agent for Windows NT	421
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sure seems that experience in international travel is conducive to networking.

Why should this be? Well, if you're going to do networking, you cannot just think of "the computer." You cannot just look at your monitor screen and think that what you see is what there is. You have to understand that what you see is a local representation of something that may look different elsewhere as someone else looks at it. A disk is a disk, but files have different formats, and text editors or word processors vary among operating systems. Sure, it is possible to make a universal user interface such as Netscape, but only those who understand underlying differences in both principle and detail can construct such an interface.

> It's a seller's market for system administrators right now, because the expansion of the Internet has made more jobs than there are people to fill them. **So a good and reasonably sociable system administrator can get a job practically anywhere in the world at good pay.**

The Psychology of Travel

"Will you just look!" your friend says, waving vaguely, as you walk into the crowded reception.

There are plenty of people in the world who will do that and expect that you will see the same thing they do. There are other people who realize that you may see the color of the drapes, the size of the room, the way people cluster near the bar, the group of wallflowers on one side, the attentive hosts in the middle, the guest who just spilled coffee on the floor, that the crowd this year is much bigger than last year, that the Japanese delegation is larger, more communicative, or more at ease, or any number of other things. How are you to know what you're supposed to look at?

"Well, just look!" your friend says, glancing back at you, not understanding your hesitation.

An occasional tourist may have seen different things in different places, but will still expect that there are fixed sights to see, as pointed out by package tour guides: the cathedral, the palace, the waterfront. The occasional tourist will also expect fixed ways to see them: the splendor of the artwork, the luxury of the medieval rulers, the picturesque lines of the rigging in the well-preserved schooner.

"Why of course! The chandelier! Isn't it lovely!" the accidental tourist would answer.

"No, not that! Look!" your friend would say, slightly disgusted, gesturing insistently.

A more experienced tourist may see more interpretations: the

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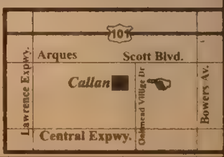

cathedral as a symbol of the temporal power of the church, the way that power interacted with the feudal order, and how the rising merchant sea power helped permit the modern state.

"The reception is quite successful this year!" the more experienced tourist would say.

"Well, yes, but just look!" your friend would say, foot tapping.

A traveler will seek out new places to see (the small churches, the local baron's castle, the workshops of the early industries) according to personalized agendas [(more depth from the last trip, background for business deals, genealogy *(http://www.quarterman.org/)*, history, philosophy *(http://billy.acsu.buffalo.edu/gretchen/aquinas.html)*].

'It's good they have a salad bar instead of just those old salty things," the incipient traveler would say.

"I suppose, but don't you see?" your friend would say, head shaking.

The committed long-distance traveler or expatriate has no choice but to observe how each local sight appears both to the locals (so one can eat and get around) and to the passing tourist (both to distance oneself from them and to keep up with the culture back home). You must "*see a little into the springs and motives which being cunningly presented to me under various disguises, induced me to set about performing the part I did.*" You, as a traveler, will observe your friend's eye movements or remember former hand-waving incidents and realize the indicated item.

Shipbuilding doesn't have the cachet now that it once did, but a generation ago it was hot stuff. **The Internet is today's ocean of opportunity, and those who know how to set companies afloat on it are much in demand.**

"Oh, yes, Henry has had a few too many and now he's spilled his coffee while trying to increase the caffeine in his alcohol stream."

'But he's a good guy, anyway," your friend says, pleased, taking your arm.

Complexity And Communication

The experienced traveler or expatriate cannot survive without complexity. In a practical sense, there's the never-ending meshing of the local culture and the home culture. It's possible to exist in a foreign country without ever learning much of anything about it. Military bases can provide this kind of insulation. There are people from the US who lived most of their lives in the Panama Canal Zone yet never learned Spanish. This can be a job, even a living, but it's not travel.

The real traveler travels for the complexity, the cognitive dissonance, the continual challenge of understanding and making oneself understood, and "*all the attending marvels of a thousand Patagonian sights and sounds.*" You observe for yourself that you cannot see and

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hear all the marvels, even standing right before them; you must, willy-nilly, select.

And so must the media. Once you learn a few languages and realize that newspapers or television stations in different countries or cultures can report the same exact incident and say entirely different things about it, and that there are patterns to what is reported at all, you're hooked. Nothing is ever again only what it seems.

Yet you must make yourself appear in recognizable form in the local culture in order to interact with it. The application of such a paradox of perception to network protocols and interfaces should be obvious.

The application may become even more obvious when you consider that many computer programmers and architects were outcasts in their own countries because they were too smart, too odd, too un-athletic. Geeks, laughed at by the popular high school crowd. Foreigners in their own homes. Many of them took to travel as a way to find context. Besides, they had less risk of alienation than most people, already being aliens. Many of them have now found ways to make themselves acceptable to the popular culture, as successful software entrepeneurs, Web designers, authors of computer games, whatever.

These people are changing the popular culture, too. Glasses are now considered sexy. Dress-down Fridays are now universal. And computers are pervasive. The traditional media managed to pervert the common understanding of the word "hacker" to mean only "criminal" (it really means someone who is good at or enjoys programming), but we hackers *(http://www.datamation.com/PlugIn/humor/jargon/jargon_22.html# TAG827)* have royally hacked mundane society right under the media's collective nose.

Romancing The Routes

There's another reason people indulge in long-distance travel. The romance of long-distance travel is not just seeing new sights and meeting new people; it's not just learning new ways of perceiving them; it's not just learning how to make yourself understood in new cultures. It's also meeting and interacting with other people such as yourself who have learned these things, who "*love to sail forbidden seas, and land on barbarous coasts.*" Where do you meet long-distance travelers?

When we are tired of spending our "*week days pent up in lath and plaster; tied to counters, nailed to benches, clinched to desks,*" what do we do? In the old days, when Ishmael got burned out on schoolteaching he would take to a fictional ship and Herman Melville *(http://www.melville.org)* would write his *Moby Dick (http://king.dom.de/moby.html)*, from which I have been quoting.

Pasch says her grandfather might point out that when he was young traveling also required quite a bit of physical effort, and much more time than today's airplanes spare us from "wasting." "Ah, the luxury of sitting on a ship for two weeks pondering life on the way to Europe."

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Internet *continued...*

Or, as I always remind Gretchen when the train's late or the ferry doesn't leave until the next day and it's so cold and raining that the seagulls have hats on: *(http://billy.acsu.buffalo.edu/gretchen/places/baltic.html)* "Ah, the romance of long-distance travel!" I'm even remotely involved in reinacting a 14th century trans-Atlantic voyage by one of my ancestors, but that's another story *(http://www.mids.org/ sinclair/600/index.html).*

> Once you learn a few languages and realize that newspapers or television stations in different countries or cultures can report the same exact incident and say entirely different things about it, and that there are patterns to what is reported at all, you're hooked.
> **Nothing is ever again only what it seems.**

These days we do use airplanes, and I ran into Jacobsen again in Akihabara, that Chinatown for hackers in the middle of the archetypical 21st century city, Tokyo. (If you want a dinosaur tamagotchi, go out the Akihabara Electric Town exit from the JR train station, turn right, go around the corner, take the second narrow alley back to the right under the train tracks, and about half way in you'll find a shop on the right where you only have to pay twice rather than three times the price of the now-unfashionable chick version.) Jacobsen showed me several gadgets he'd found that are not available in stores in North America, and named several other people we knew he'd met in Akihabara earlier in the week. So I told him he'd be leading off this column.

Oaxaca, Cusco, Ouagadougou.
On the sea, in the air, on the road.
Wherever we go, there we are,
the traveling subjects of this ode.

But you can't stay on the road forever. Alright, actually, there are ways you can, but most of us aren't quite that committed. Even those who are often obtain spouses and children and fall out of the sky.

What if you want the romance without always roughing it?

What else is the Internet? ■

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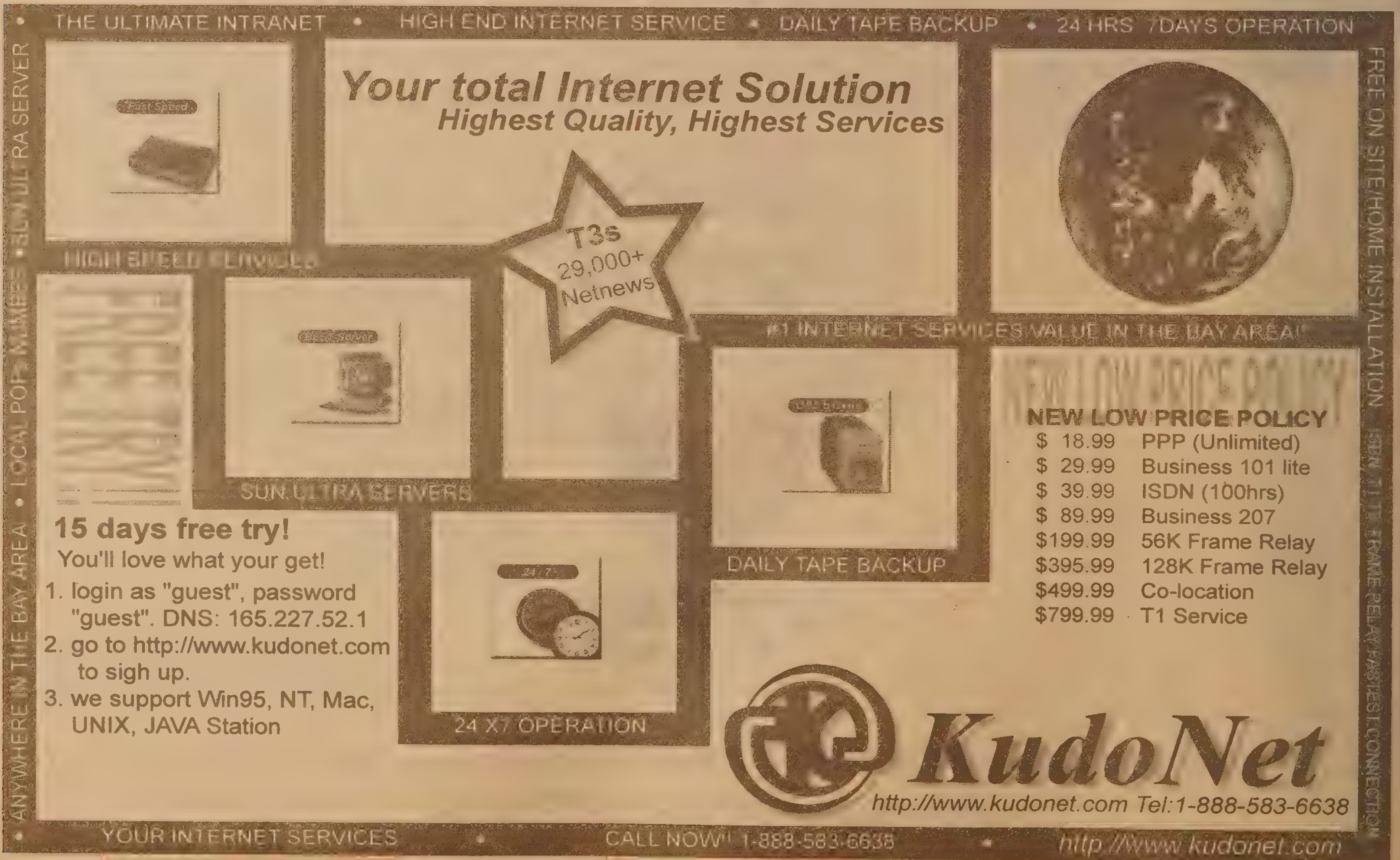

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URLs For Mac Zealots

The Cult Of Apple

"Never ask a man what sort of computer he drives. If it's a Mac, he'll tell you. If not, why embarrass him?"
—Tom Clancy

During the hubbub surrounding the ouster/resignation of Dr. Amelio from Apple, there were truckfuls of interesting comments bandied about in the press. One notable quote went to the general effect that Macintosh fanatics, including developers and managers at Apple, fell in love with a technology instead of developing a business. Hence the slow decline of Apple from technology leader to follower.

That said, there's no dearth of Macintosh Web sites that carry more news than you'll ever want to know about the MacOS platform, third-party products, and rumors, with choirs of platform zealots spewing anti-Wintel rants. Here's a survey.

MACINTOUCH *(http://www.macintouch.com/)* This is the most notable site, not only for its long-running tenure as a source for reliable MacOS news but for its widespread imitators. Macintouch is the prototype for almost all of the other Mac sites listing news headlines in chronological order with links to the headline's source. Rick Ford's Macintouch column also appears weekly in *MacWEEK*.

EVANGELIST *(http://www.evangelist.macaddict.com/)* This site is the archive for Guy Kawasaki's famous Macintosh mailing list featuring an archive of over 900 messages spanning several years. Most messages are around 25KB and contain three to twelve items of interest to MacOS addicts including news, product PR, the prerequisite "tidbits," news of Macs used by celebrities and high-profile companies, and things that are easier to do on a Mac than a Wintel box. Ballot-stuffing is encouraged anytime someone from the list catches wind of some online survey in some Wintel-oriented publication.

MACDIRECTORY *(http://www.macdirectory.com/yellow.html)* A database contains links to over 44,000 Mac products and services served from Claris FileMaker Pro, including a simple search engine. Monthly "features" cover such topics as digital photography, while the news section covers headlines with links. Has an East Coast print edition.

> One notable quote went to the general effect that **Macintosh fanatics, including developers and managers at Apple, fell in love with a technology** instead of developing a business.

MACCENTRAL *(http://www.maccentral.com/)* A functional frames format provides a more product-oriented focus, with news about new product releases in addition to vendor deals as well as some industry news with a MacOS slant. The 7/13 article touted Johnny Chung as the next Apple CEO.

EXTREMEMAC *(http://www.extreme-mac.com/)* Contents cover new software releases, daily news and links. A detailed HTML guide will be useful to some. This site also touted the widespread humorous tale of boxer Mike Tyson replacing Dr. Amelio. Software reviews and downloads.

VERSION MASTER *(http://www.versionmaster.com/)* Lists software updates as they become available, with details and links to download sites. Offers an Amazon.com-like free service—you can choose the products for the site to keep track of for you, and it then emails you when new versions are released so you needn't check back each day as you breathlessly await any update to Dungeon of Doom.

MACCNN *(http://www.macnn.com/)* Sorry, no Larry King or James Earl Jones' deep basso, but you get the ads anyways. Some special offers from vendors and links to new software. Daily news, including Sunday, is a mishmash of the standard offering without Lynne Russell. Of course, there's a gaggle of opinion about Apple's restructuring post-Amelio.

MACFEVER *(http://www.macfever.com/TOC.html)* Jim Manzione offers product reviews, editorials, classifieds, and no less than seven monthly columns from a stable of writers. Internet Avenues is a collection of links broken down by category. Features a live chat area.

MACTIMES *(http://www.informedusa.com/t/mactimes.html)* Bulletin Board-style message area and chat augment this site. Includes a mail-list server, and over 4,000 articles. MacInStuff MacTimes was nominated for coolest site by Industry.Net *(http://www.industry.net)*, and selected as "April's Hot Site of the

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Online Services *continued...*

Month" by America's Best *(http://www.americasbest.com/abest)* and has received an award plaque from Heidi Roizen, vice president, Apple Developer Relations. Features 300 Web site hyper links. Its rating of 122 puts the site well into the top 1% of 186,695 sites in Web Counters *(http://www.digits.com/top/)* top 1,000.

GB's MACWATCH *(http://www.tcp.ca:80/gsb/Mac/index.html)* is hosted by the venerable Graeme Bennett, a top editor with Vancouver, BC's *Computer Paper.* Terse journalistic headlines let you view three days of headlines without having to scroll! Innovative, too. Unless product-download oriented, the stories don't have the self-important links to the usual sources as if you needed to go there in the first place. At least someone's figured out how to keep browsers on the same page instead of shunting them off to some other site. Canadian slant on Apple news.

THE FLY ON THE MAC *(http://www.macresource.com/fast/frames)* One of the few Mac Web pages I've seen that lets you customize how you want to view the page. A menu of options lets you define how many stories to see at one time and other useful modifications. Quotes and links to a lot of sources for its (pretty standard) headlines. Discussion area.

MACOS RUMORS *(http://rumors.netexpress.net:80/)* Not. Yet, if screen shots of OpenStep 4.2 count as rumors, well, OK. Features a Rhapsody Information Archive. Is it a rumor if the rumor is about an OS that will never see the light of day?

O'GRADY's POWERPAGE *(http://ogrady.com:80/)* What can you say—it's all the same. Headline about Amelio's resignation with links to Apple Computer PR, *MacWEEK,* News.com and the *San Jose Mercury News.* Like I don't already know? Do the browsers of this site live in a cave?

WEBINTOSH *(http://www.Webintosh.com/)* An active message board.

APPLEHOLICS ANONYMOUS *(http://www.appleholics-anonymous.com/)* 18-year-old discovers summer, suds, and girls are more interesting than spreading mindless Macintosh propaganda.

MACJEDI *(http://www.saracen.com/ajp1.html)* Geeks like this unceasingly miss the point that the Empire always strikes back. This is probably the most inane, full-of-itself site I've seen in some time.

APPLELINKS *(http://www.applelinks.com/)* The mother of all Mac-related links site, with over a thousand.

Networked Sites

One of the more interesting schemes to come along is the notion of networking Mac sites. I like the idea, as maybe just one grenade would get them all.

MacAddict *(http://www.macaddict.com/network/)* now provides links to a selection of Mac-oriented Web sites including the PRACTICAL MAC *(http://www.practicalmac.com/)*, MACSURFER *(http://www.macsurfer.com/news/)* and some others including a couple mentioned

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above. The idea here is to build traffic for "like-minded" hives—er, sites—having them link back to the mothership—in this case, Mac Addict.

Another version of this scheme is the **Mac Cognoscenti WEBRING** *(http://www.Webring.org/)*. In this ring there are currently forty-seven Web sites. Log onto one, and you can go around the ring and visit all forty-seven by clicking on the "Next" button. Or link to one randomly, see the next five on the list, and so on. In this manner the sites can feed each other instead of just the mothership.

Here is a selected list of some of the sites, with the Webmaster's own description where not obvious.

ANIMATED ART GALLERY *(http://members.aol.com/pvthand)*

MAC's DINER *(http://members.aol.com/apple piman/index.html)* Your essential guide to Macintosh freeware...

OPEN MAC TECHNICAL SERVICES *(http://www.openmac.com/)* Help for beginners.

CHURCH OF ZEN FATALISM *(http://emporium.turnpike.net/Z/zen/index.html)* Not every Mac Webmaster is fixated on hardware—this site focuses on every geek's other hobby: SciFi/fantasy/illustration and "fine art."

ZONE 8 *(http://www.geocities.com/SunsetStrip/Towers/6680/)* Prank extensions for the Mac.

AUSMAC ARCHIVE *(http://mac.unsw.edu.au/)* "Best of breed" software collection.

ERIC's WEB *(http://www.geocities.com/SiliconValley/Lakes/2680/)* Massive collection of computer humor.

MACTALENT *(http://www.mactalent.com/)* Employment registry for Mac expertise.

MAC PRUNING PAGES *(http://www.AmbrosiaSW.com/DEF/)* Guide to dispensable system software.

MACEAST *(http://www.maceast.org)* Since 1987, live cams, Java tips, Jolt by the case.

NEW LOW-END MAC *(http://www.iserv.net/~dknight/leu/)* For pre-PowerPC owners waiting for System 8 to crash.

KEN's CHUNK *(http://www.monmouth.com/~kmcgee/)* Is a personal site with heavy Mac emphasis.

MAC HANGOUT *(http://www.feist.com/~scox/)* Hobnob with other Mac enthusiasts and wizards.

AAAJ's Macintosh Plaza *(http://www.geocities.com/~macplaza/)* Helps you customize your Mac in ways you'll never think of.

KDTP MACLINKS *(http://members.aol.com/kdtp/links.html)* "Help celebrate everything Mac!"

MACINTOSH NETWORKING *(http://www.louisville.edu/~lmlars01/indulge/index.html)*

MAC MARAUDERS *(http://www.macconnect.com/~dabreens)* Daily updates help you fight back for the Mac.

COMPLEAT MACINTOSH LOVER *(http://members.global2000.net/~briank/index.html)* Devoted to the Mac and the people who love it.

And finally—

WHY DO I MACINTOSH/NeXT *(http://members.aol.com/poppyvail/whymac.html)* Explains how Macintosh changed my life and business.

Where's the Kool-Aid when you need it, Mr. Jones? ■

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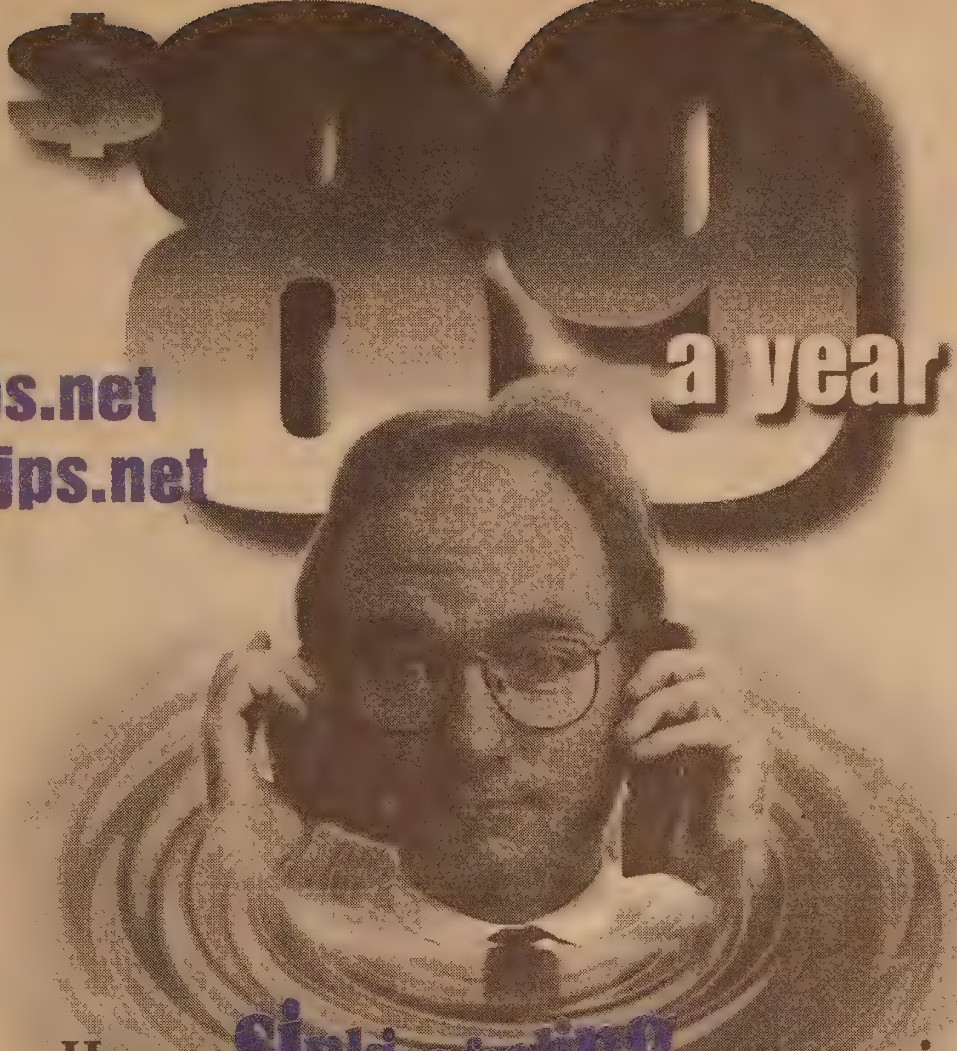

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Centura Software Corp. *http://www.centurasoft.com* Centura Software (Formerly Gupta Corp.), provides products, such as ForeSite, for developing and deploying high-performance Web-based and client/server applications. [Exp. #168.]

Chakers, Inc. *http://www.chakers.com* Specializing in computer monitors and peripheral equipment. Monitor and electronics repair service. [Exp. #169.]

Chiptech, Inc. *http://www.chiptech1.com* Computers and components. [Exp. #170.]

Dad's Computers *http://members.aol.com/g2bitln/index.html* Custom build, repair, and upgrade computers. Offering Internet research and tech support. [Exp. #168.]

Developers Media Systems *http://www.developersms.com* Instructional videos, catalog Web sites, online conferencing. [Exp. #169.]

DigiDay ScreenThemes *http://www.visionx.com/st* The ultimate in screen art. [Exp. #170.]

Digital Computer Resale *http://www.digitalresale.com* Buy, sell, trade, lease, repair, and new and used computers and peripherals. [Exp. #170.]

Emotional Panacea *http://website-1.com* Free information about amazing software that permanently eradicates unwanted human emotions—in private! [Exp. #170.]

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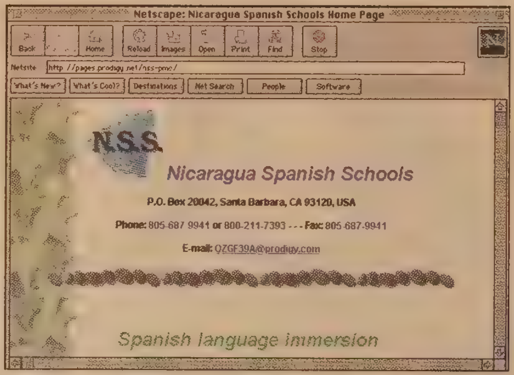
F. P. Enterprises, Inc. *http://www.fpe.com* Disk drive information, sales, and technical specifications. [Exp. #169.]

Free Flight *http://www.free-flt.com* Free Flight, a moving map application with 3-D terrain, makes aeronautical navigating easy. [Exp. #168.]

HiTek Solutions, Computer Education Centers *http://www.hiteksolution.com/hiteksolution/* Novell and Microsoft certification training providers. (714) 474-8270. [Exp. #169.]

HP Small Business Web Resource Center *http://www.hp.com/go/smallbiz/* This new site is part of HP's small-business initiative to help small businesses use as a business tool to increase productivity. [Exp. #168.]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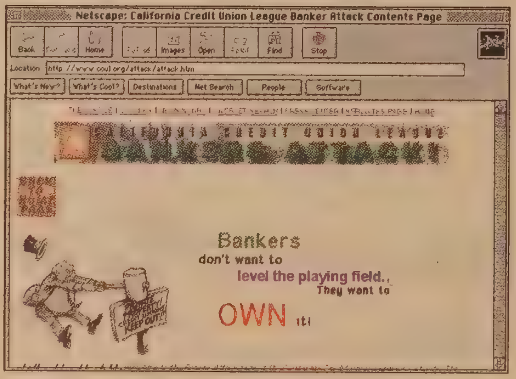
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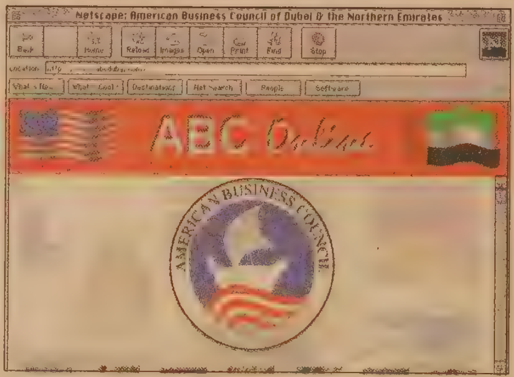
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continued on page 176

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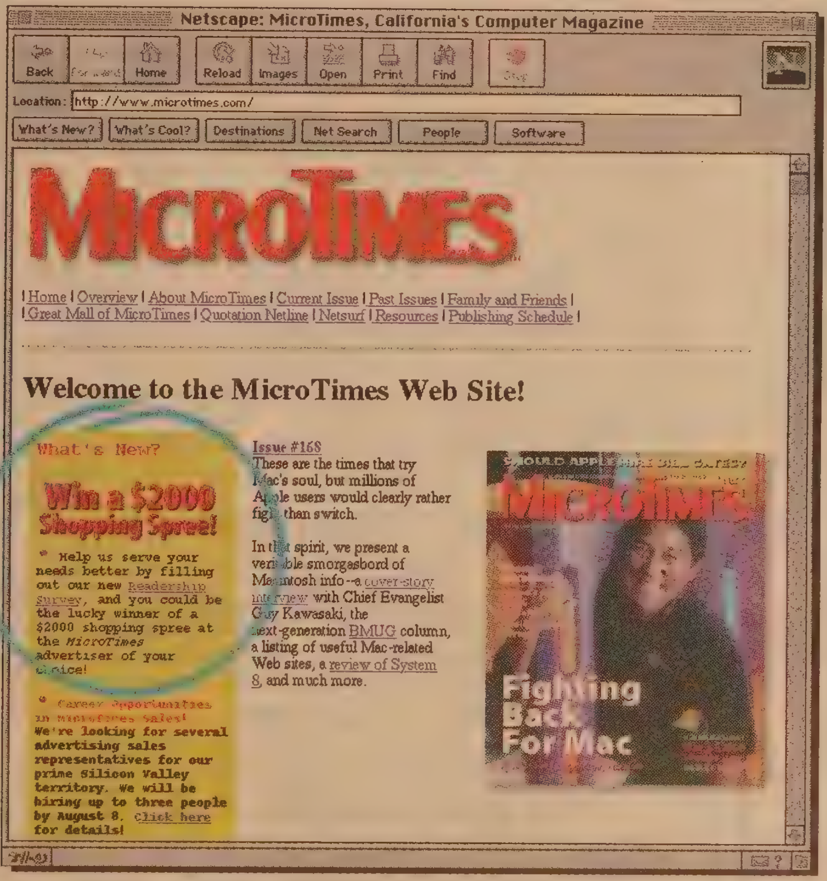

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Welcome to the MicroTimes Web Site!

What's New?

Win a $2000 Shopping Spree!

* Help us serve your needs better by filling out our new Readership Survey, and you could be the lucky winner of a $2000 shopping spree at the *MicroTimes* advertiser of your choice!

* Career Opportunities in MicroTimes Sales! We're looking for several advertising sales representatives for our prime Silicon Valley territory. We will be hiring up to three people by August 8. Click here for details!

Issue #168

These are the times that try Mac's soul, but millions of Apple users would clearly rather fight than switch.

In that spirit, we present a veritable smorgasbord of Macintosh info--a cover-story interview with Chief Evangelist Guy Kawasaki, the next-generation BMUG column, a listing of useful Mac-related Web sites, a review of System 8, and much more.

We need your help. Please take a few minutes and fill out our **1997 MicroTimes Readership Survey.** Afterward, your name will be entered into a drawing for a $2000 gift certificate for use at the *MicroTimes* advertiser of your choice.

Filling out the survey is easy—just go to *www.microtimes.com* and click on the link labeled "Readership Survey." Fill out the form completely, including all your contact information. Remember, this survey will help us find what you want most from *MicroTimes.* It's this easy!

All responses must be received by September 1, 1997. Time is ticking so act now! The winner of the shopping spree will be notified on or before September 30, 1997.

Thanks for your help.

The 1997 MicroTimes Readership Survey is conducted by Advanced Business Research, Inc. All personal information submitted will not be resold and will be kept in strict confidentiality.

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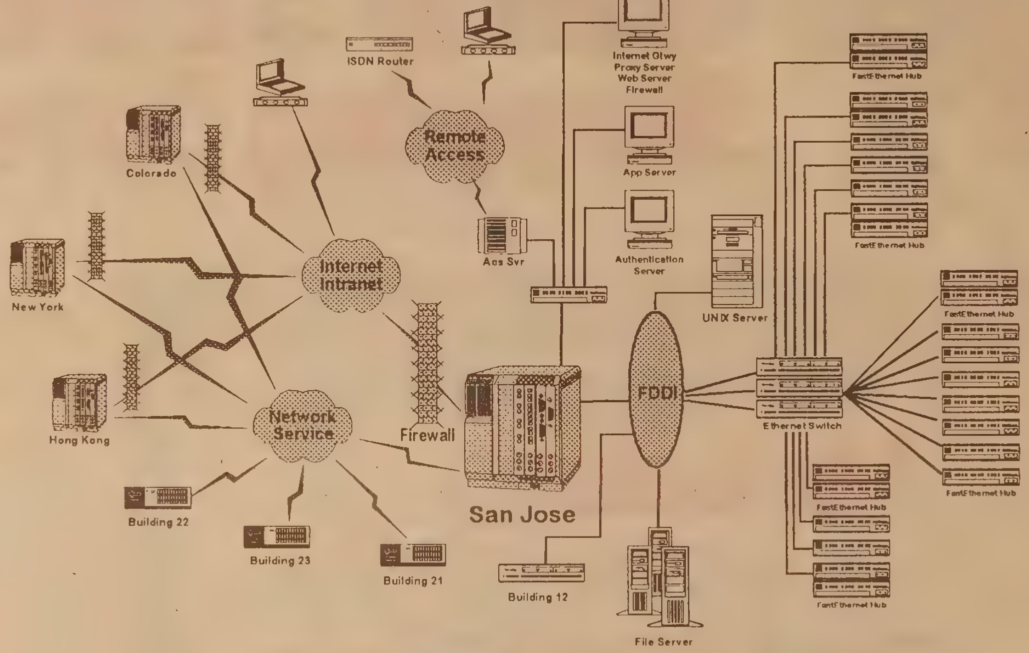

Novell UNIX NFS TCP/IP Mac Windows NT
Switch Router Server PC JukeBox rinter
Internet Gateway Remote Access Modem Pool
ISDN FrameRelayT1 SMDS ATM **FDDI**
FireWall **Database** GroupWare **Security**

3Com CISCO NOVELL HEWLETT PACKARD Microsoft COMPAQ

Authorized Service Center

Systems Design / Installation / Training / Maintenance / Application Development

Bay Networks NOVELL HEWLETT PACKARD Microsoft Tektronix Lotus USRobotics digital 3Com CISCO COMPAQ NEC

3,686
3Com
Switch 3000
8-100 Only SW
1 Additional Slot
--for 100BT or ATM
4080 MAC Addresses
SNMP and RMON2
Support redundant PS

2,272
3Com
Desktop Switch
24-10SW 1-100Upink
1 Additional Slot
--for 100BT or ATM
SNMP and RMON2
Support redundant PS

1,104
3Com
Switch 140
4-10SW 1-100Uplink

Great Segmentation
for Small Network to
Share 100BT Resource

3,715
Bay Networks
BayStack 301
22-10 & 2-10/100SW
1024 MAC Addresses
SpanningTree
SNMP & RMON (ext)
Support redundant PS

6,650
Bay Networks
BayStack 28200
16-10 &/2-100SW
4-Slot Mixed Media
(10BT/F, 100BTX/FX)
2 G Backplane Bus
SNMP & RMON (ebd)
Support redundant PS

8,807
Bay Networks
BayStack 28115
16-10/100SW
2 Slots (100BTX/FX)
400Mbps Link Speed
2G Backplane Bus
SNMP & RMON (ebd)
Support redundant PS

12,209
CISCO SYSTEMS
Switch 2201
12-10/100 & 2-100 SW
1.2G Backplane Bus
16000 MAC Addresses
1000 VLANs
SpanningTree
SNMP & RMON (ebd)
Support redundant PS

5,581
CISCO SYSTEMS
Switch 1422
24-10SW Hybrid with
8-100 (1-SW-Segment)
2 Slots (1 used here)
(100BTX/FX SW
8-100BTX,4-100BFX)
1,024 MAC Addresses
SNMP & RMON (ebd)

3,426
CISCO SYSTEMS
Switch 1220
24-10 & 2-100SW
1G Backplane Bus
SpanningTree
SNMP & RMON (ebd)
Support redundant PS

5,206
SMC
TigerSwitch 100
8-10/100SW
1.6G Backplane Bus
4096 MAC Addresses
SpanningTree
SNMP
Support redundant PS

2,108
Network Peripheral
FE-224
24-10 (4-SW-Segment)
2-100SW Hybrid
2G Backplane Bus
4096 MAC Addresses
SpanningTree
SNMP
Support redundant PS

Ether Switch

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256K Cashe
16M EDO RAM
1.2 GB HD
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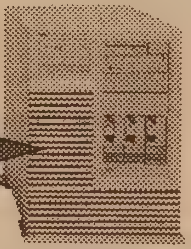
Duplexing Svr



6789

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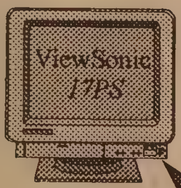

17"
Flat Screen
1280x1024@80H
1600x1200@69Hz
TCO Low Rad'n

659

5/150M Hz

2,091

5/150 Processor
16M RAM
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10X CD
12.1" DSTN

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Web Page Listings *continued from page 172*

1st Family Of Internet Services *http://members.tripod.com/~altek* Offer Internet access and earn up to $20,000/month. [Exp. #169.]

A+Net *http://www.abac.com* Southern California's total Internet solution. Connect plans from $3.33/mo. Business services and merchant servers. [Exp. #168.]

A2ZBIZ—Total Internet Presence *http://www.a2zbiz.com/* Professional services in site design, multimedia, and hosting. Extensive marketing experience, reasonable prices. [Exp. #169.]

Accesspoint *http://www.apc.net* $18.95 dial-up. $29.95 Web hosting with domain name, unlimited traffic, and FP extensions. [Exp. #169.]

Alpine Solutions *http://www.alpines.com* Alpine Solutions GeoFind service provides Internet-based business locator capabilities to business. [Exp. #168.]

Another Color *http://www.anothercolor.com* Communication design. [Exp. #169.]

BotSpot *http://www.botspot.com* The spot for all bots on the Net, including fourteen searchable bot classification databases, FAQs, libraries, articles, newsletters, e-journals, and more. [Exp. #170.]

Brad Sadler's Web Design *http://www.amer.net/users/malaya/* Offering striking Web design and ten years of marketing experience. 25% discount for non-profits. [Exp. #168.]

Connecting Business To The Future *http://www.connectx.com* Internet and intranet business solutions. [Exp. #168.]

DEK Productions *http://home.earthlink.net/~bacdoc/dek.htm* Web page design and LA local video services with full digital capabilities. [Exp. #168.]

DIALOG Select *http://dialogselect.krinfo.com* Information retrieval service for professionals. [Exp. #169.]

Direct E-Mail List Source *http://www.copywriter.com/lists/* The directory provides access to thousands of email lists and media where businesses can advertise without resorting to bulk email spam, or unsolicited commercial email (UCE). [Exp. #170.]

The Drink Exchange *http://www.drinkexchange.com* Drink Exchange's mission is to help Web professionals promote themselves by fostering an offline community where what you provide is roughly proportional to what you imbibe. [Exp. #168.]

Equilio Web Design *http://www.equilio.com* Web page design packages for starters ($300), designers ($600), and professionals ($1,000 and up). [Exp. #168.]

Facilitate.com *http://www.facilitate.com* Collaborative groupware applications that provide an electronic conference center where multiple meetings and discussions can be conducted. [Exp. #169.]

First Internet Alliance—San Jose *http://www.fia.net/sjs* Internet Service Provider; total turnkey Internet solution. [Exp. #170.]

First Light Internet Services *http://www.firstlight.net* Unlimited PPP accounts, $19.15/mo. [Exp. #168.]

Freedomstarr Communications, Inc. *http://www.freedomstarr.com/?vi5334151* A free Web page for serious entrepreneurs or Internet business starters. Customizable or automatically maintained. [Exp. #168.]

Global Web Marketing, Ltd. *http://www.gwn.co.uk* Internet design, design franchises, fax broadcast, email marketing (UK). [Exp. #168.]

Gowan.net *http://www.gowan.net/* A comprehensive Web site dedicated to a Web consulting service. [Exp. #170.]

HomeGate Corp. *http://www.homegate.net* Internet roaming service. [Exp. #169.]

Internet-Frontier *http://internet-frontier.net* Full- service Internet Access Provider. Low prices, reliable services, local access. [Exp. #169.]

InternetConnect *http://www.internetconnect.net* Full-service Web site hosting and development. Complete corporate Internet access solutions. [Exp. #168.]

JPNW *http://www.jpnw.comWebmasters* What Wonderous Webs We Weave. Specializing in putting small- to medium-sized companies on the Internet at the lowest possible price. [Exp. #168.]

Marinternet *http://www marinternet.com* Internet for Ma-rin residents. Locally owned and operated. Online users 30 days free for switching. $19.95. [Exp. #169.]

Media In Motion *http://www.mediainmotion.com* Intelligent, robust, and affordable electronic commerce site creation. [Exp. #170.]

Merchant Manager *http://www.merchantmanager.com* Complete solution for managing your online business. Build and edit pages, manage inventory and credit cards from your browser. [Exp. #169.]

mmm-MultiMedia Company *http://www.mmmMultiMedia.com* Specialists in Web site development and entertainment. [Exp. #168.]

NetCiti *http://www.NetCiti.com* NetCiti can design and market your Web site(s) on the Internet. [Exp. #168.]

Outta Site Web Design *http://www.drjack.com/outta_site* Creative Web page design and consultation. Large graphics and animation library. Great prices. [Exp. #168.]

P-Net *http://www.p-net.com/* P-Net offers complete design, service, and support for your Web pages, including HTML coding, CGI scripting, and scanning. [Exp. #169.]

Pacific Business Systems *http://www.pbs1.com* Internet access and Web page hosting. First month free. (714)452-9110. [Exp. #169.]

Plugnet—Page d'accueil *http://www.plugnet.com* Bienvenue sur le site de l'atelier de conception Internet Plug@Net. [Exp. #170.]

Power Of 2 Web Site *http://idt.net/~powerof2/index.htm* Consulting services and related directories. [Exp. #170.]

Red Shift Internet *http://www.redshift.com* Local calls to San Jose, Santa Clara, Cupertino, Sunnyvale, Mtn. View, and more. Unlimited access $16.95/mo. [Exp. #169.]

Redirection Service *http://come.to* We redirect your hard-to-remember address and give you an easy-to-remember URL. [Exp. #170.]

RJM & Associates *http://www.rjmassociates.com* Web site creation and hosting for the small business entrepreneur. [Exp. #169.]

SamGel's Web Design *http://members.aol.com/SamGel* Offering Active X, and Java animation for exciting non-static Web design. Custom graphics that are well-designed and clean. [Exp. #168.]

San Francisco Ad Net *http://www.sfadnet.com* Professional Web page design and domain name starting at $99. Get a free ad in our online classifieds. [Exp. #169.]

San Jose Web *http://www.sanjoseweb.com* Web hosting solutions for users of Microsoft FrontPage. [Exp. #168.]

Saturn Services *http://www.saturnservices.com* The economical Web space provider. [Exp. #169.]

Shop Internet Service *http://www.opax.com/sis/* Internet Presence Provider. [Exp. #169.]

SISNA *http://www.sisna.com/sanjose* Unlimited access as low as $17/mo. Special student rates as low as $12/mo. [Exp. #169.]

Taiwan Universal Commerce Information Center *http://www.commerce.com.tw* Taiwan's largest commerce Web server, specializing in trade, industry, business, manufacture, as well as import/export information. [Exp. #168.]

Watson World Wide Enterprises *http://w3ent.com* Web page design, hosting, Internet commerce, marketing, and iMALL advertising. [Exp. #168.]

Web House *http://www.masterm.com/webhouse.html* Affordable Web hosting, design, and promotion. [Exp. #168.]

WebControl—Internet Service Provider *http://www.webcontrol.de* Ihr Partner rund um das Internet. [Exp. #170.]

Webgineers *http://home1.gte.net/webgneer/* Professional Web site design and development for your personal or business needs at affordable prices. [Exp. #170.]

Weblink.com *http://www.weblink.com* Offers friendly and professional site design services and standard server use. [Exp. #168.]

WOLNET *http://wolnet.com* Complete Internet Service Providers. [Exp. #168.]

WRM & Associates *http://beaumont.net* Discount fixed-price Web site hosting. We have the best service and pricing on the Net. [Exp. #168.]

ZIIN Internet Services *http://www.ziin.net* ZIIN and ZHSp are dedicated to creating quality Web pages at a low price. [Exp. #169.]

LEGAL SERVICES

California Anti-SLAPP Project *http://www.sirius.com/~casp* Provides information on strategic lawsuits against public participation and California's anti-SLAPP law. [Exp. #168.]

Database Solutions, Inc. *http://members.aol.com/formfiler/homepage.htm* Developers of PhotoTracker Pro and Do-It-Yourself Divorce software. [Exp. #168.]

David S. Kahn, Attorney At Law *http://www.verdict.com* Online legal information for people who have been arrested, are being evicted, have been in an accident, and who want information regarding Small Claims Court. [Exp. #170.]

Delaware Intercorp *http://www.del.net/biz/incorp/* Delaware registered agent and incorporation service for Limited Liability Companies and Corporations. [Exp. #169.]

First Legal Resource *http://www.findanattorney.com* Southern California's most complete Internet attorney directory. [Exp. #169.]

Law Offices of John R. Kahn *http://members.tripod.com/~jkahn/index.html* Attorney handling Computer, Bankruptcy, and Real Estate law, and transactional matters in San Jose, CA. [Exp. #169.]

Richard J. Greenstone, Attorney at Law *http://www.rjg.com/rjg* Copyright, trademark, licensing, business, and transactional law for the computer, entertainment, and publishing industries. [Exp. #169.]

Silicon Valley Legal Net *http://www.pagedepot.com/siliconvalleylegalnet* Interactive legal and business Web site. [Exp. #168.]

You Can Adopt *http://www.youcanadopt.com* Law firm limited to adoption and surrogacy. [Exp. #169.]

EMPLOYMENT/ EDUCATION

Altos Education Network *http://www.altosnet.com* Web-based education for entrepreneurs. [Exp. #169.]

Ascolta Training Co. *http://www.ascoltatraining.com* Training: Cisco, Microsoft, Novell, Netscape, Internet/intranet certified engineer. [Exp. #169.]

Aspect International Language Schools *http://www.aspectworld.com* Language programs, study abroad, work study, high school and college exchange programs, and university placement. [Exp. #169.]

Avant-Garde Executive Recruiters *http://www.avgard.com* Executive and senior engineering search and placement firm. [Exp. #168.]

Certificate II Firefighting Operations *http://www.tafensw.edu.au/oten/fire* A Web site to support distance students in the course offered by the Open Training and Education Network (OTEN), Australia. Elements of the site include course information, learning resources, a forum for students and teachers. [Exp. #169.]

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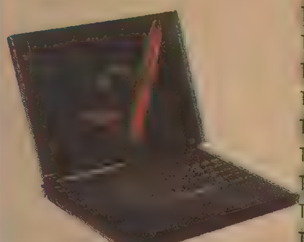

IBM

Model	Processor	Ram	HD	Screen	Price
ThinkPad 380	Pent-™/150	16MB	1.08GB	12.1 Dual Scan	$1735.
ThinkPad 380	Pent-™/150	16MB	1.35GB+8X	12.1 Dual Scan	$2026.
ThinkPad 380	MMX/150	16MB	2.1GB+8X	12.1 Active	$3280.
ThinkPad 560	Pent-100	8MB	810MB	11.3 Dual Scan	$2360.
ThinkPad560	Pent-133	8MB	2.1GB	11.3 Dual Scan	$1928.
ThinkPad 560	MMX/150	16MB	2.1GB	Dual Scan	$2702.
ThinkPad 560	Pent-™/133	8MB	2.1GB	12.1 Active	$3858.
ThinkPad 560	Pent-™/133	8MB	1.08GB	12.1 Active	$4063.
ThinkPad 560	MMX/166	16MB	2.1GB	12.1 Active	$4245.
ThinkPad 760XD	MMX166	32MB	3.0GB+8X	12.1 Active	$4824.
ThinkPad 760XI	MMX/166	16MB	2.1GB	12.1 Active	$3858.
ThinkPad 760XL	MMX166	32MB	2.1GB	12.1 Active	$4052.
ThinkPad 760D	MMX/166	32MB	3.0GB+8X	13.3 Active Clr	$6444.
ThinkPad 760L	MMX166	32MB	3.0GB	13.3 Active Clr	$6176.
ThinkPad 760E	Pent-™/150	16MB	2.1GB	12.1 Active	$3575.
ThinkPad 760ED	Pent-™/133	16MB	2.1GB+6X	12.1 Active	$3781.

TECRA 740CDT
$6???

TECRA 730CDT
$5???

TECRA 510CDT
$4???

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- *10x Internal CD-Rom Drive*
- *Internal 28.8 Kbps V.34 Data/Fax Modem*
- *Optional Docking Station*

*SubNotebook

Model	Processor	Ram	HD	Screen	Price
50CT	Pentium™/75	16MB	772MB	6.1" Active Clr.	$1898.
200CDS	Pentium™/133	16MB	1.34GB+10X	12.1" Dual Scan	$1828.
400CDS	Pentium™/75	8MB	500MB+4X	10.4' Dual Scan	$1096.
430CDT	Pentium™/120	16MB	1.2GB+10X	11.3" Active Clr.	$2098.
440CDX	P133-MMX	16MB	1.34GB+10X	12.1" Fast Scan	$2278.
440CDT	P133-MMX	16MB	1.34GB+10X	12.1" Active Clr.	$3098.
460CDT	P166-MMX	32MB	2.02GB+10X	12.1" Active Clr.	$3918.
3600CT*	486 DX2-50	8MB	250MB	8.4" Active Clr.	$968.
3600CT*	486 DX2-50	8MB	500MB	8.4 Active Clr.	$968.
650CT*	Pentium™/133	16MB	1.2GB	11.3" Active Clr.	$2628.
660CDT*	Pentium™/150	16MB	1.35GB+10X	11.3' Active Clr.	$3998.
300CT	P133-MMX	32MB	1.51GB	10.4" Active Clr.	$3188.
510CDT	Pentium™/133	16MB	2.1GB+10X	12.1' Active Clr.	$2698.
520CDT	P166-MMX	32MB	2.02GB+10X	12.1" Active Clr.	$4278.
530CDT	P166-MMX	32MB	2.02GB+10X	12.1' Active Clr.	$4368.
730CDT	Pent-150	16MB	2.1GB+6X	12.1" Active Clr.	$3998.
730XCDT	P150-MMX	16MB	2.1GB+6X	13.3" Active Clr.	$4368.
740CDT	P166-MMX	16MB	3.0GB+10X	13.3' Active Clr.	$5898.
740CDT-NT	P166-MMX	16MB	3.0GB+10X	13.3" Active Clr.	$5898.
740CDT	P166-MMX	16MB	2.1GB+10X	13.3" Active Clr.	$5368.

TEXAS INSTRUMENTS

Travelmate 6000 Pentium Notebooks

Model	Processor	Ram	HD	Screen	Price
Extensa 600CD	Pent-™/120	8MB	810MB	12.1" SVGA DSTN	$1678.
Extensa 650CD	Pent-™/133	16MB	1.35GB	12.1" SVGA DSTN	$1868.
Extensa 650CDT	Pent-™/133	16MB	2.1GB	11.3" SVGA Active Clr	$2798.
Extensa 660CD	MMX/166	16MB	1.35GB	12.1" SVGA DSTN	$2728.
Extensa 660CDT	MMX/166	16MB	2.1GB	11.3" SVGA Active Clr	$3208.
Extensa 900	Pent-™/133	16MB	1.35GB	12.1" SVGA DSTN	$2158.
Extensa 900T	Pent-™/133	16MB	1.35GB	11.3" SVGA Active Clr	$2528.
Extensa 900CDT	Pent-™/133	16MB	1.35GB	11.3" SVGA Active Clr	$2908.
TM-6020	Pent-™/120	8MB	1.08GB	11.3" SVGA Active Clr	$2048.
TM-6030	Pent-™/133	16MB	1.35GB	12.1" SVGA Active Clr	$2328.
TM-6050	Pent-™/150	16MB	1.35GB	12.1" SVGA Active Clr	$3078.
TM-6160	MMX/166	32/96MB	2.1GB	12.1" SVGA Active Clr	$4658.

HEWLETT® PACKARD

Model	Processor	Ram	HD	Screen	Price
OmniBook 800CT	Pent-™/133	16MB	1.4GB	10.4 SVGA TFT	$3078.
OmniBook 800CT	Pent-™/166	16MB	2.1GB	10.4" SVGA TFT	$4348.
OmniBook 5700CT	MMX/150	16MB	2.0GB	12.1" SVGA TFT	$4368.
OmniBook 5700CT	MMX/166	16MB	2.0GB	12.1" SVGA TFT	$4618.
OmniBook 5700CTX	MMX/166	32MB	3.0GB	12.1" XGA TFT	$5598.
OmniBook 5700CTX	MMX/166	16MB	2.0GB	12.1" XGA TFT	$4998.

SERVICE

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Toshiba (Premier Service Provider), HP, Compaq, AST, Zenith & Apple

NEC NEC NEC

Model	Processor	Ram	HD	Screen	Price
Versa 6050MH	Pent-™/150MMX	16MB	1.44GB+10X	12.1" SVGA TFT	$3543.
Versa 6050MH	Pent-™/150MMX	16MB	2.1GB+10X	12.1" SVGA TFT	$3722.
Versa 6050MX	Pent-™/150MMX	16MB	2.1GB+10X	12.1" XGA TFT	$4094.
Versa 6050NT	Pent-™/150MMX	16MB	2.1GB+10X	12.1" XGA TFT	$4281.
Versa 6200MX	Pent-™/166MMX	32MB	2.1GB+10X	13.3" XGA TFT	$5285.
Versa 6200MX	Pent-™/166MMX	32MB	3.0GB+10X	13.3" XGA TFT	$5676.
Versa 6200NT	Pent-™/166MMX	32MB	2.1GB+10X	13.3" XGA TFT	$5502.
Versa 6200NT	Pent-™/166MMX	32MB	3.0GB+10X	13.3" XGA TFT	$5862.
Versa 2630CD	Pent-™/133	16MB	1.44GB+10X	12.1" SVGATFT	$1864.
Versa 2650CD	Pent-™/150MMX	16MB	1.44GB+10X	12.1" SVGA DSTN	$2331.
Versa 2650CDT	Pent-™/150MMX	16MB	1.44GB+10X	12..1" SVGA TFT	$3265.
Versa 2530	Pent-™/133	16MB	1.08GB	12.1" SVGA DSTN	$1612.
Versa 2400CD	Pent-™/100	8MB	1.08GB+6X	11.3" SVGA DSTN	$1668.

Hitachi Notebooks

Model	Processor	Ram	HD	Screen	Price
Vision Book Elite	Pentium™/166MMX	16MB	2.1GB+10X	13.3" Active Clr.	$4398.
Vision Book Pro	Pentium™/133MMX	16MB	1.44GB+10X	12.1" Active Clr.	$2948.
Vision Book Pro	Pentium™/166MMX	32MB	2.1GB+10X	12.1" Active Clr.	$4128.
Vision Book Pro	Pentium™/166MMX	32MB	3.0GB+10X	13.3" Active Clr.	$4548.
Vision Book Plus	Pentium™/133	16MB	144GB+10X	12.1" Dual Scan	$1658.
Vision Book Plus	Pentium™/150MMX	16MB	144GB+10X	12.1" Dual Scan	$2298.
Vision Book Plus	Pentium™/166MMX	16MB	2.1GB+10X	12.1" Active Clr.	$3218.

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6200M	Pent-™/Pro200	32MB	3.7GB+12X	$3058.
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* Monitor not included

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- Pentium Pro Intel FX Chipset 512K Cache BAT/ATX $170/180
- Pentium Intel TX Chipset 512K Cache BAT/ATX $115/125
- Pentium Intel VX Chipset 256K/512K Cache $76/86
* CPU Not Included

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Web Page Listings *continued...*

Computer Recuiters, Inc. *http://la.e2100.com/home/bobmoore* Specializing in data processing positions: programmers, database administrators, network administrators, etc. Full-time and contract. [Exp. #170.]

Computer Technical Training *http://www.compuedge.com* Hands-on technical development training. [Exp. #169.]

Crash Course On The Internet *http://www.choicemall.com/crashcourse* A five-hour video training series instructed by NASA Internet Specialist Brian Kowal. [Exp. #168.]

EduTech *http://www.edutech-1.com* The largest online listing of K-12 certified and classified jobs in California education on the Net. [Exp. #169.]

Experts Only Productions *http://www.choicemall.com/crashcourse* A quick and easy way to learn about the Internet. [Exp. #169.]

Extreme Training Methods *http://inwinc.com/2003/extm.htm* Increase your mind-body skill levels by 400%. Break through mental, physical plateaus and blocks. [Exp. #168.]

Hart Crowser Online Institute *http://www.supportonline.com* Provides computer-mediated, instructor-moderated, learning to support the training and education of today's workforce. [Exp. #168.]

Hotel Institute Montreux *http://www.him.ch* One of Switzerland's leading Hotel School of Hospitality Management. Instruction in English. [Exp. #170.]

How to Find Permanent Employment Through Temporary Services *http://members.cruzio.com/~frankj/* HTML manual for sale, based on author's personal experience using temporary services. [Exp. #169.]

Human Resource Network *http://www.hr-network.com/* IT contract and recruitment services. [Exp. #168.]

International Academy For Peace Education *http://www.best.com/~iape/home.html* Not just another peace initiative—innovative, community-building. [Exp. #169.]

LANOP CNE And MCSE Training *http://www.accesscom.com/~seekers/lanop.htm* CNE and MCSE training wth a guarantee and the lowest possible prices. [Exp. #169.]

Math Exercises *http://rbbbs.cnchost.com* Online math exercises for grade 8-12; introducing a unique math exercise software (WonderMath). [Exp. #169.]

Networking Jobs In Northern California *http://www.pcpersonnel.com* We specialize in the placement of computer networking professionals using Windows NT, Novell Netware, and UNIX networks. [Exp. #170.]

Nicaraguan Spanish Schools *http://pages.prodigy.net/nss-pmc* With offices in California and Nicaragua, our intention is to help develop eco-tourism in Nicaragua and create jobs for Nica-raguans by offering the highest-quality Spanish instruction in the most stimulating and interesting settings in Nicaragua. [Exp. #170.]

Pacific College Of English *http://pacificcollege.edu.au* [Exp. #168.]

Virginia Woolf On Women And Fiction *http://www.cygneis.com/woolf* A distance-learning project. [Exp. #169.]

Zephyr Business Services *http://members.aol.com/zephyrbus/web/* Computer software training specializing in speech recognition software and custom training. Sales and support of major speech recognition platforms. [Exp. #168.]

ORGANIZATIONS

American Academy of Pediatric Dentistry *http://aapd.org* WWW site of premier children's dental advocates. [Exp. #169.]

American Business Council Of Dubai & The Northern Emirates *http://www.abcdubai.com/* The ABC is a non-proft organisation of Americans and American companies based in Dubai United Arab Emirates. [Exp. #170.]

continued on page 185

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- Adaptec 2940UW Ultra Wide PCI SCSI Controller
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- Keytronic 104 Windows 95 Keyboard
- Logitech Mouseman 3-Button Combo Mouse
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** Windows 95 Service Release 2 W/CD & Manual	Add 90

New Pentium® II EIDE Powerstation

Premier EIDE System with Intel's Pentium® II Chipset

- Intel's Pd 440FX Chipset Motherboard
- Supports Up To 512MB RAM, EDO/ECC In 4-8 72Pin Simm
- PCI/4 ISA, 3 PCI/2 ISA & 1 Shared Slots (Depending On The M/B)
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- Intel Heat Sink & Cooling Fan/Alarm B/B
- 32MB 60NS EDO RAM (Up To 512MB)
- Quantum 4.3GB Ultra DMA IDE Hard Drive
- 2 Hi-Speed (16c550 Fast UARTS) Serials & 1 Enhanced Parallel (2 USB Ports On Certain Motherboards)
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- Matrox Millennium II 4MB WRAM VGA Card
- Artmedia TX1864 Monitor 17" .25NI 1280x1024 @60Hz Trinitron Monitor
- Keytronic 104 Windows 95 Keyboard
- Logitech Mouseman 3-Button Combo Mouse
- Deluxe File Server Tower W/ 300W UL Power Supply W/Open Side Door
- Toshiba EIDE 24x Speed 90ms 3600KB CD ROM
- US Robotics Sportster 56 S/R Fax Modem
- Creative Labs Sound Blaster 16/AWE64 PnP Stereo Sound Card (Depending On M/B)
- Surround Sound 240W Speaker System w/Subwoofer

Pentium® II Processor 266/233MHz w/ASUS M/B	$2,979 / 2,820
Pentium® II Processor 266/233MHz w/GVC M/B	2,948/2,790
Pentium® II Processor 266/233MHz w/Intel M/B	2,884/2,726
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- Intel Heat Sink & Cooling Fan/Alarm B/B
- 64MB 60NS EDO RAM Up To 1GB /64MB SDRAM (Intel Board) Up To 512MB
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- Diamond Stealth 3d Virge 4MB EDO DRAM W/Mpeg
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- Keytronic 104 Windows 95 Keyboard
- Logitech Mouseman 3-Button Combo Mouse
- Deluxe File Server Full Size Tower w/Open Side Door 300w/UL
- Toshiba SCSI 15x Speed 90ms 2400KB CD ROM
- Creative Lab Sound Blaster Awe 64 Value PnP Sound Card
- US Robotics Sportster 56 S/R Fax Modem
- Intel EtherExpress Pro/100B PCI Network Card

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Pentium® Pro Processor 200 w/ASUS M/B	$3,972/3,400
Pentium® Pro Processor 200 w/Intel M/B	4,086/3,514
Pentium® Pro Processor 200 w/Super Micro M/B	3,913/3,341
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** Windows NT 4.0 Workstation/Server-Setup & Tested	Add 160/Call

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- Pentium® Pro Processor-150/180/200 MHz
- 256K/512K Integrated L2 Cache
- Intel Heat Sink & Cooling Fan/Alarm B/B
- 32MB 60NS EDO RAM Up To 128MB (168Pin Dimm (SDRAM) Is Optional)
- Quantum 3.2GB Ultra Fast SCSI Hard Disk 5400 RPM/ 512K Hard Drive
- ADAPTEC 2940UW Ultra Wide SCSI Controller On Board
- 2 Hi-Speed (16c550 Fast UARTS) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5" Floppy Drive
- ATI's 3d Pro Turbo Pc2tv 4MB SG RAM (Up To 8MB) VGA Card
- Iiyama 8617e 17" .26NI 1280x1024 80Hz Plug & Play Flat Screen Monitor
- Keytronic 104 Windows 95 Keyboard
- Logitech 3 Button Ps-2 Mouse
- Deluxe ATX Medium Tower Case 235w Power Supply
- Toshiba SCSI 15x Speed 90ms 2400KB CD ROM
- Creative Lab Sound Blaster Awe 64 Value PnP Stereo Sound Card
- Surround Sound 170w Speaker System
- US Robotics Sportster 56.6 S/R Fax Modem

Pentium® Pro Processor 200 w/512K	$3,209
Pentium® Pro Processor 200 w/256K	2,652
Pentium® Pro Processor 180	2,411
** Windows NT 4.0 Workstation/Server-Setup & Tested	Add 160/Call
** Windows 95 Release 2 w/CD & Manual	Add 90

NEW

Deluxe Pentium® Pro EIDE System

Premiere EIDE System with Intel's Pentium® Pro Chip

- Intel Advanced/VS Motherboard
- Intel/AMI Flash BIOS, Zif Socket 8, 3PCI ,3 ISA, 1 Shared Slot
- Intel 440FX Chipset Motherboard
- Pentium® Pro Processor-150/180/200 MHz
- 256K/512K Integrated L2 Cache
- Intel Heat Sink & Cooling Fan/Alarm B/B
- 32MB 60NS EDO RAM Up To 128MB
- Quantum 3.2GB Enhanced IDE Hard Drive
- 2 Hi-Speed (16550 Fast UARTS) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5" Floppy Drive
- Expert S3 3D Virge 4MB EDO DRAM w/MPEG Screaming 64 Bit Graphics
- Impression 17".27NI 1280x1024 65Hz Window 95' Plug & Play Monitor
- Qtronix 104 Windows 95 PS-2 Keyboard
- Logitech 3-Button PS-2 Mouse
- Deluxe ATX Form Medium Tower Case 230W UL CSA Power Supply
- Toshiba IDE 16x Speed 95ms 2400KB CD ROM
- Crystal 16 Bit Sound Card On Board
- Surround Sound 170W Speaker System
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Microsoft Windows 95 Release 2 w/CD & Manual

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Pentium® Pro Processor 180	1,827
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- K6/Cyrix/Pentium® MMX Processors
- Heat Sink & Cooling Fan
- 512KB Pipeline Burst Cache
- 32MB 60NS EDO RAM Up To 128MB
- Quantum 4.3GB Ultra DMA IDE Hard Drive
- 2 Hi-Speed (16550 Fast UARTS) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5" Floppy Drive
- Diamond Stealth 3D Virge 4MB EDO DRAM w/MPEG Screaming 64 Bit Graphics
- Axion 17".28NI 1280x1024 65Hz Windows 95 Plug & Play Monitor
- Keytronic 104 Windows 95 Keyboard
- Logitech 3-Button Mouse
- Deluxe Medium Tower Case 230W UL Power Supply
- Toshiba IDE 24x Speed 95ms 2400KB CD ROM
- Creative Labs Sound Blaster Awe 64 Value PnP Sound Card
- Surround Sound 240w Speaker System w/Subwoofer
- Diamond Supra 56k w/Voice S/R Fax Modem
- Microsoft Windows 95 Release 2 w/CD & Manual

AMD K6-233 MMX	$1,918
AMD K6-200/166 MMX	1,805/1,730
Cyrix 6x86-P166+	1,652
Pentium® Processor- 233 MMX	2,013
Pentium® Processor-200 MMX/200	1,872/1,761
Pentium® Processor-166 MMX/166	1,747/1,714
Pentium® Processor-150	1,704
Pentium® Processor-133	1,702
Pentium® Processor-120	1,692
Office Professional 97	Add 165

NEW

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Premiere Pentium® EIDE Multimedia Systems with Intel's PENTIUM® Chip

- Intel TC430HX (Tucson) Motherboard
- Intel TC430HX Chipset Motherboard
- PC '97 Compliant Including Windows
- Support Universal Serial Bus
- Supports Intel MMX Processor
- Heat Sink & Cooling Fan
- 512KB Pipeline Burst Cache
- 32MB 60NS EDO RAM Up To 128MB
- 2 Hi-Speed (16550 Fast UARTS) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5" Floppy Drive
- Diamond Stealth 3D Virge 2MB EDO RAM w/MPEG Screaming 64 Bit Graphics
- Impression 5vx 15".28NI 1280x1024 Digital Monitor
- Keytronic 104 Windows 95 PS/2 Keyboard
- Logitech 2-Button PS/2 Mouse
- Deluxe ATX Form Medium Tower Case 235W UL Power Supply
- Toshiba IDE 16x Speed 95ms 2400KB CD ROM
- Yamaha Opl3 Fm Synthesizer Stereo Sound Card On Board
- Surround Sound 170w 2 Way Amp Speaker
- Supra 33.6 V.34 W/Voice S/R Fax Modem
- Microsoft 95 Release 2 W/CD & Manual

Pentium® Processor 233 MMX	$1,640
Pentium® Processor-200MMX/200	1,500/1,394
Pentium® Processor-166MMX/166	1,374/1,341
Pentium® Processor-150	1,322
Pentium® Processor-133	1,320
Pentium® Processor-120	1,319
Office Professional 97	Add 165

NEW!

Family Multimedia System

Beginning System with Cyrix/AMD/Intel's Pentium® Chip

- Intel 430VX (Triton Iii) Chipset Based Motherboard
- Cyrix/AMD/Pentium®/MMX
- Heat Sink & Cooling Fan
- 512KB Pipeline Burst Cache
- 16MB 60NS EDO RAM Up To 128MB
- Fujitsu 1.7GB Enhanced IDE 10ms Hard Drive
- Mitsumi 1.44MB 3.5" Floppy Drive
- S3 Trio 64 V+ 1MB W/Mpeg Screaming 64 Bit Graphics
- Hyundai 14".28NI 1024x768 60Hz Monitor
- Qtronix 104 Windows 95 Keyboard-Serial
- Logitech 2 Button Ps-2 Mouse
- Deluxe Mini Tower Case 230W Power Supply
- Toshiba IDE 16x Speed 95ms 2400KB CD ROM
- Opti Full Duplex Stereo Sound Card w/3D
- Pontech 60w 2 Way Amp Speaker
- Bitrix 33.6 V.34 S/R w/Voice Fax Modem
- Microsoft 95 Release 2 w/CD & Manual
- Cyber 97" 10 CD Pak
  97 Grolier Multimedia Encyclopedia, Internet Online, Family Dictionary, Al Unser Jr, The Real Deal, The Animals ! 2.0, SMS Reference Library, Cyberspeed, Family Dictionary

AMD K6-233 MMX	$1,181
200 MMX/166 MMX	1,068/993
Cyrix 6x86-P166+	915
Pentium® Processor- 233 MMX	1,300
Pentium® Processor-200 MMX/200	1,136/1,031
Pentium® Processor-166 MMX/166	1,010/977
Pentium® Processor-133/120	957/955
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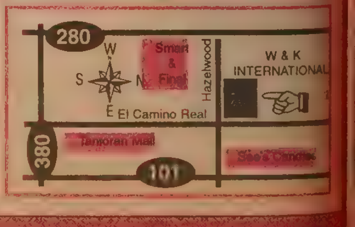

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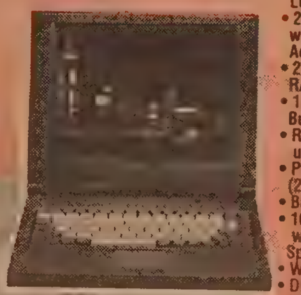
Slimnote 7:

Genuine Intel Pentium® Low-Voltage CPU Built-in 1.44MB FDD. Memory expandable to 40MB, 1MB EDO PCI Bus Video Card, One Type III or Two Type II PCMCIA Slots, Duracell DR-35 NIMH Battery (Lithium Ion Battery Optional), 16-Bit Full Stereo Audio System, Built-in Stereo Speakers and Microphone, Windows 95 OEM CD with Manual, 4.8 Pounds, Express Car48.



P77-12CV10. . . . . $1,165
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P77-13CV13 . . . . $1,245
Pentium® 133 MHz CPU, 11.3" SVGA Dual Scan Display (800x600), 1.0GB HDD, 16MB RAM, 256 Color.

P77-13TV13 . . . . $1,465
Pentium® 133 MHz CPU, 11.3" SVGA Active Matrix Display (800x600), 1.3GB HDD, 16MB RAM, 64,000 Color.

External PCMCIA 10X CD-ROM $315

One Year Parts and Three Years Labor Warranty on Computer.
Nine Month Warranty on Battery.

Twinhead® SlimNote 9

Specifications:

- Genuine Intel Pentium® Low-Voltage CPU Processor
- 256KB L2 Cache RAM w/64-Bit PCI Graphics Accelerator
- 2MB Video RAM, EDO RAM Upgradable to 64MB
- 1.44MB Floppy Drive, Built-in 10X CD-ROM
- Removable EIDE HDD up to 2.1GB
- PCMCIA Slots (2x Type II or 1x Type III)
- Built-in PS/2 Touchpad
- 16-Bit Stereo Sound System w/Built-in Speakers & Microphone
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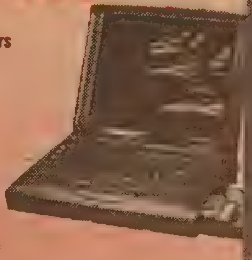

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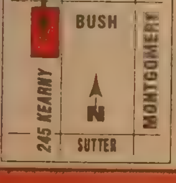

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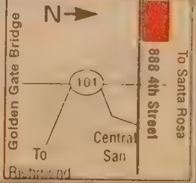

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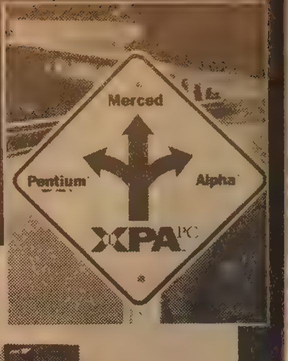

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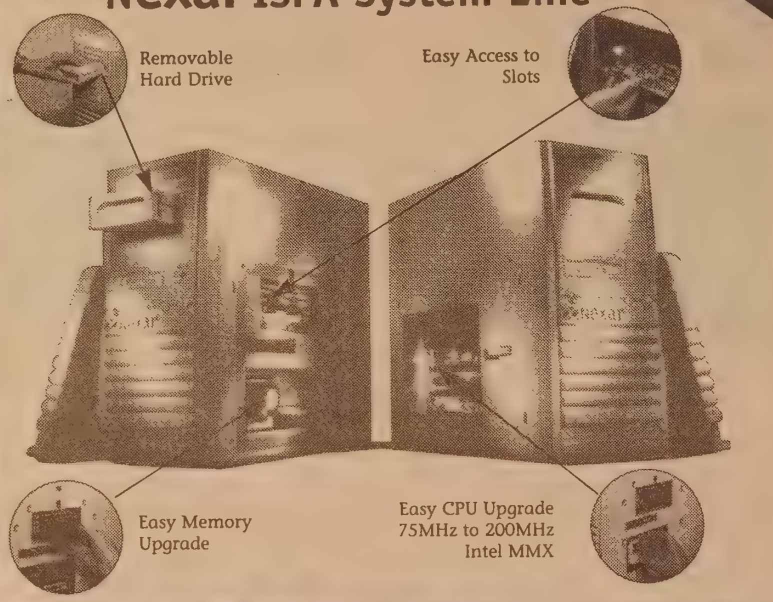

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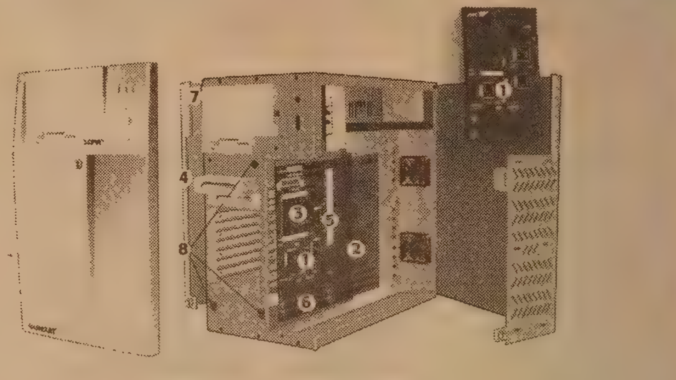

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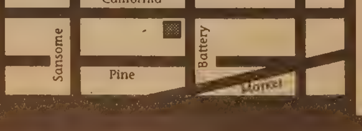

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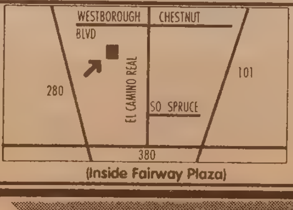

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California Credit Union League's Banker Attack *http://www.ccul.org/attack/attack.htm* Designed specifically to toss the arguments from banking industry attacks on credit unions back in the laps of the bankers. [Exp. #170.]

Catholic Books Online *http://www.catholicbooks.org* The Web's largest non-profit Catholic bookstore. [Exp. #169.]

CHECNet *http://www.checnet.org* The communication hub for individuals, organizations, scientists and policy-makers interested in children's environmental health. [Exp. #168.]

CHLB's Home Page *http://homepage.usr.com/c/camaron* Commodore 128/64 and Apple II family user group Web site. Come join us. [Exp. #169.]

Get Involved Online *http://www.stc-inc.org* AIDS awareness and prevention site sponsored by Students That Care, Inc. [Exp. #168.]

International Myeloma Foundation *http://www.myeloma.org/* Dedicated to improving the quality of life for myeloma patients while working towards prevention and a cure. [Exp. #169.]

LA AutoCAD User Group *http://www.lacad.org* Supporting the Autodesk family of software. Lisp programs, calendar of events, member/meeting information, articles, and technical papers. [Exp. #168.]

LA-VRML User Group *http://www.westworld.com/~bvirtual/lavug/* [Exp. #169.]

National Center For Employee Ownership *http://www.nceo.org/* Articles, columns, discussions, and interactive training on employee stock ownership plans, stock options, etc. [Exp. #170.]

Network Professionals Resource Center *http://www.inetassist.com* For network professionals and others that want to learn more about computer networking and telecommunications. [Exp. #169.]

New York Hospital Medical Center Of Queens *http://www.nyhq.org* A state-of-the-art primary and tertiary care hospital. [Exp. #169.]

NOCCC (North Orange County Computer Club) *http://www.noccc.org* Web page of computer user group. Meetings: 1st Sunday of the month, 9:00 am, Chapman University, 333 N. Glassell Ave., Orange. [Exp. #170.]

Northern California Power Agency Home Page *http://www.ncpa.com* Electric *power* provider located in Northern California. [Exp. #168.]

Orange County NetWare Users Group *http://www.computerquest.com/cns/ocnet/* Web site that lists meeting topics, dates, and membership info. [Exp. #169.]

PAACT—Patient Advocate for Advanced Cancer Treatment *http://www.osz.com/paact* Non-profit support group for prostate cancer. [Exp. #170.]

PFSA *http://www.pfsa.org* A non-profit professional organization of fleet managers, supervisors, and technicians serving the greater SF Bay Area and Northern California. [Exp. #169.]

Riggs Institute *http://www.riggsinst.org* A non-profit publisher and agency promoting literacy and offering aides and tools to teachers, parents, and tutors of students wanting to improve their English reading and writing skills. [Exp. #170.]

continued on page 195

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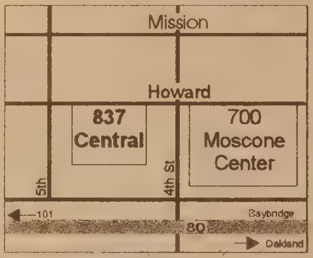

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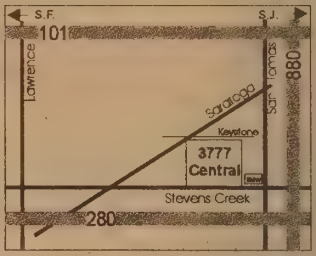

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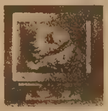

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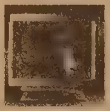

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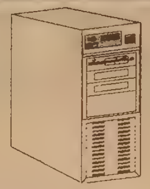

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ANTEC

KS-011+RPP3002: 19 Bay Server (9 front,10 int. bay) 300W,Hot-Swap + Redundant P/S, 2 Cooling Fan	599
KS-011+RPT600: 19 Bay File Server (9 front,10 int. bay) 300W Redundant Vertical AT P/S, 2 Cooling Fan	479

OTHERS

19" Indsutrial Rackmount Chassis	265
19" Industrial Rackmount Chassis fot ATX, 250W	349

3. CONTROLLERS

adaptec

2940 SCSI PCI w. Kit oem	199
2940U SCSI PCI w. Kit oem / reg	215/249
2940UW Ultra Wide-SCSI PCI w. Kit oem/reg	255/289
AHA3940U PCI Multi-Channel SCSI	399
AHA3940UW Ultra-Wide w. Kit	479
APA1460 Slim PCMCIA SCSI	165
ASW-EZ SCSI 3.1 for Dos & Windows	59
ASW-EZ SCSI 4.0 for Win'95	69

ADVANSYS

ABP5140 SCSI-2 ISA 8Mb/s	115
ABP930 Ultra SCSI PCI 20Mb/s	135

ASUS

AS300UW SCSI & 16-bit audio adapter	215
SC200 SCSI-2 PCI (w. NCR chips)	79

COREL

Corel SCSI Software v2.5	85

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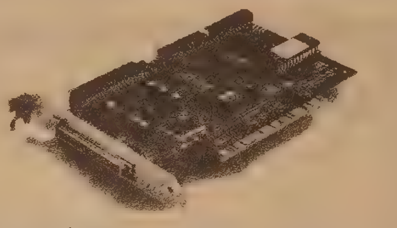


INI-9100U $149

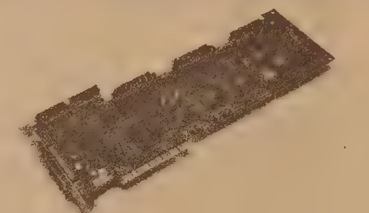
PCI Ultra SCSI Retail Kit
with cable, drivers and manual

INI-9100UW $199

PCI Ultra Wide SCSI Retail Kit
with cable, drivers and manual

Get $35 Instant Store Credit

with any Quad-Channel SCSI Bus Master Adapters



INI-9400U $499

PCI Ultra SCSI
with drivers and manual

INI-9400UW $599

PCI Ultra Wide SCSI
with drivers and manual

KOUWELL

KW557A IDE/ 1.44/ 2S(FiFo)/ ECP/ 1G	29

LDP (Lomas Data)

Fast PCI SCSI-2 10Mb/s	**(115)*
Fast PCI 20, Ultra Wide SCSI, 40Mb/s	215

NEW MEDIA

Basic SCSI DB25 PCMCIA	99
Bustoaster SCSI-2 PCMCIA	165

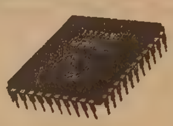
SIIG (5 yr. warranty)

CN2419 EIDE 4HD/ 2FD 16 bit ISA	59
CN2420 EIDE 4HD 16 bit ISA	39
CN2424 EIDE 4HD/ 2FD/ 2S 1P 1G/ 16550 & IEEE1284	79

OTHERS

DIAMOND Fire Port 40 Ultra-SCSI PCI	159
PROMISE EIDE 2300 Plus IDE/ 4HD/ 2S 1P/ 16550	59
WD Fast SCSI-2 PCI, 10Mb/s	79

4. CPUs



AMD

AMD-X5-133	55
AMD-K5-75	45
AMD-K5-133 / AMD-K5-166	89/119
AMD-K6-166 / AMD-K6-200	199/249
AMD-K6-233	419

CYRIX (w. fan)

6x86-P150+ (3.5V)	87
6x86L-P150+ (2.8V)	89
6x86-P166+ (3.5V)	94
6x86L-P166+ (2.8V)	99
6x86-P200+ (3.5V)	115
6x86L-P200+ (2.8V)	124

intel.

486 DX2 66	45
486 DX4-100	49
MMX-166Mhz Pentium®	229
MMX-200Mhz Pentium®	289
MMX-166Mhz Pentium® (3 yr. warranty)	175
MMX-200Mhz Pentium® (3 yr. warranty)	299
P54C-120Mhz Pentium®	109
P54C-133Mhz Pentium®	109
P54C-150Mhz Pentium®	119
P54C-166Mhz Pentium®	169
P54C-200Mhz Pentium®	279
133MHz Pentium® w. fan (3 yr. warranty)	117
150MHz Pentium® w. fan (3 yr. warranty)	119
166MHz Pentium® w. fan (3 yr. warranty)	225
200MHz Pentium® w. fan (3 yr. warranty)	309
Pentium® II 233Mhz w. fan	589
Pentium® II 233Mhz (3 yr warranty)	595
Pentium® II 266Mhz w. fan	749
Pentium® II 266Mhz (3 yr warranty)	755
Pentium® Pro 180Mhz w. fan	379
Pentium® Pro 180Mhz w. fan (3 yr. warranty)	439
Pentium® Pro 200Mhz w. fan & 256k	529
Pentium® Pro 200Mhz w. fan, 256k, 3 yr warranty	**(535)*
Pentium® Pro 200Mhz w. fan & 512k	1119

OverDrive®:

Pentium® 83Mhz (fr 486-33 or DX2-66)	199
Pentium® 133Mhz (fr P-60 / 66)	199
Pentium® 150MMX (fr P-75 / 90)	335
Pentium® 166MMX (fr P-100)	365

OTHERS

Cooling Fan for 486 CPU	4.95
Cooling Fan for Pentium® processor	6.95

5. DIGITIZERS

SUMMASKETCH

III 12 x 12, 4 or 16 button cursor / stylus	**(249)*
III 12 x 18, 4 button cursor	**(395)*
- 2 button stylus for III	39

WACOM

Art Pad II 4x5, w. Erasing Ultra Pen for PC	135
- w. Fractal Dabbler	155
Art Pad II 4x5, for MAC	139
Art Z II 6x8, w. Erasing Ultra Pen for PC	**(299)*
- for MAC	309
Art Z II 6x8, w. Fractal Expression	365
Art Z II 12x12, w. Erasing Ultra Pen for PC	415
- for MAC	429
Art Z II 12x12, w. Fractal Expression	479
Art Z II 12x18, w. Erasing Ultra Pen for PC	685
UC-520 4-button Puck	45
UP-201 Pressure Stylus	49.95
UP-701E Erasing Ultra Pen	64.95
UP-801E Erasing Ultra Pen	69.95

**(price) .... SPECIALS , while supplies last*

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6. DRIVES

FLOPPY DRIVE :

O.R. Technology

120MB 3.5"	159

TEAC

1.2MB 5.25"	43
1.44MB 3.5" / w. frame	27/31

HARD DRIVE :

FUJITSU

M1636TAU 1.2GB 10ms 128k, 5400rpm, IDE	159
M1623TAU 1.7GB 10ms 128k, 5400rpm, IDE	169
M1624TAU 2.16GB 10ms 128k, 5400rpm, IDE	*(189)
M1638TAU 2.56GB 10ms 128k, 5400rpm, IDE	209
M2954QAU 4GB 8ms Wide-SCSI	639
M2954SYU 4GB 8ms 512k, 7200rpm, SCSI-2	569
M2949SYU 9GB 10ms 512k SCSI	*(1155)

IBM

DCAS-32160 2GB 8.5ms Ultra-Wide SCSI, 5400rpm	325
DCAS-34330 4.3GB 8.5ms Ultra-Wide SCSI, 5400rpm	479

KINGSTON

PCMCIA 260MB IDE, type III	375
PCMCIA 340MB IDE, type III	445

Quantum

Anniversary SALE (limit 1 per customer, while supplies last)

QM32160STS 2GB SCSI-2	**229**
Atlas-2 45500S 4.3GB 8ms 512k Ultra SCSI	**699**
FBTM-1280A 1.2GB 12ms 128k IDE	175
ST-32160A DMA 2GB 10ms 128k IDE	199
FBTM-3200AT 3.2GB 11ms 128k IDE	235
ST-34320A DMA 4GB 10ms 128k IDE	299
FBTM-3200S 3.2GB 10ms 64k SCSI	319
Atlas-2 2275S 2.1GB Ultra-Wide SCSI	389
Atlas-2 4550W 4.3GB 8ms 512k Ultra-Wide-SCSI	739

Seagate

ST-31276A 1.2GB 12ms 64k IDE 1" ht.	165
ST-32132A 2.1GB 12.5ms 128k IDE	185
ST-33240A 3.2GB IDE	245
ST-51080N 1GB 12.5ms 128k SCSI	235
ST-32171N 2GB Ultra-SCSI	499
ST-32171W 2GB Ultra-Wide SCSI	525
ST-34371N 4GB Ultra SCSI	749
ST-34371W 4GB Ultra-Wide SCSI	789
ST-34501W 4.5GB UW-SCSI, 10,000rpm	895
ST-19171N 9GB Ultra SCSI	1310
ST-19171W 9GB Ultra-Wide SCSI	1345

TOSHIBA (notebook drive)

PCMCIA 262MB IDE	425
MK1401MAV 1.4GB IDE 2.5"	215
MK2103MAV 2GB 13ms 128k IDE 2.5"	325

WESTERN DIGITAL

Anniversary SALE (limit 1 per customer, while supplies last)

WD-33100 3GB 12ms 128k IDE	**225**
WD-11200 1.2GB 11ms 128k IDE	*(169)
WD-21600 1.6GB 10ms 128k IDE	185
WD-22000 2.1GB 12ms 128k IDE	205
WD-32500 2.5GB 12ms 128k IDE	219
WDC-AC34000 4GB IDE	309
WDC-E2170 2.17GB Ultra SCSI	499
WDC-E2170 2.17GB Ultra-Wide SCSI	525
WDC-E4360 4.3GB Ultra SCSI	729
WDC-E4360 4.3GB Ultra-Wide SCSI	759

OTHERS

Descartes PCMCIA Card Reader /Writer for PC	99
Mounting Frame for 3.5" Hard / Floppy Drive	4/4
Removable Case for 3.5" HD IDE	23
Removable Case for HDD SCSI	25

REMOVABLE DRIVE :

IOMEGA

Anniversary SALE (limit 1 per customer, while supplies last)

Jaz Drive 1GB SCSI Int / Ext	**275/369**
Jaz Disk 1GB / 3 pack / 5 Pack	*(99/290/475)
Zip Drive 100MB IDE oem	109
Zip Drive 100MB SCSI Int / Ext	145/145
Zip Drive 100MB Parallel	145
- Zip Disk 100MB : Single / 3-Pack	17.95/48
- Zip Disk 100MB : 6-Pack / 10-Pack	95/155
Zip Zoom SCSI Accelerator Card (for Ext.)	46

SYQUEST

SyJet 1.5GB SCSI Int.	379

7. I/O CARDS

KOUWELL

KW508-E Single Parallel Port	12
KW524J-1 2S /2P w. 16550 chips	29
KW524L 2S(FiFo) / 1P / 1G w. 16550 chips	32

QUICKPATH

FlexPort 42: 4 Serial / 2 Parallel (Bi - Dir), 16550	99
FlexPort 22EX: 2 Serial / 2 Parallel / 16650	99
PortFolio 550E: 13 Port Multi-I/O, 4 Serial/ 4 FDD/ 2 Parallel/ 2 IDE/ 1G	125

SIIG

Cyberpro 2S Highspeed w. 16650 chips	55
Cyberpro 4S Highspeed w. 16650 chips	89
IO1809 2S/1P w. 16550 chips	39
IIEEE 1284 EPP/ ECP/ Parallel Port	32

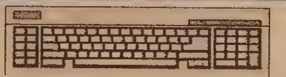
SOCKET COMMUNICATIONS

PCMCIA Serial I¢O 16550	149
PCMCIA Dual Serial I¢O	215

STB 4-COM

4 Serial, 16 bit, 16550, support Com 1-8, IRQ	99

8. KEYBOARDS



FOCUS

FK2001 104 for Win'95	32
FK7200 101 Trackball	32
FK8200 124 Key w. calculator	44
FX9200W 124 Key w. Trackball & calculator	48

KEYTRONIC

104 Key: White / Black	*(29)/45
104 Key PS/2	29.50
Wireless IR Trackball / Classic 104	79/65
Wireless IR Touchpad	82

MICROSOFT

Anniversary SALE

Natural Keyboard oem / reg	55/75

QTRONIX

Scorpius 104+ for Win'95: White / Black	23/24
Scorpius 105 / w. Trackball	32/49

SIIG

Minitouch 81-key Click	45
Supertouch 101 Click	53
W104 (for Win'95) / Wintouch 104	29/39

OTHERS

Antec 104: White / Black	21.50/39
BTC 5100 Key Mini (80-key)	35
EZ Key Natural Keyboard	36
Maxi 101	33
Mitsumi 104 Model-ZW	16.50
Northgate Omnikey Evolution/Glide Point	*(95

9. MEMORY

DIMM

4 x 72 - 60ns, 168-pin (32MB)	199
8 x 72 - 60ns, 168-pin (64MB)	389
Unbuffer SDRAM 2 x 64 - 10ns	85
Unbuffer SDRAM 4 x 64 - 10ns	139

SIMM

1 x 9 - 60ns / 70ns (1MB)	8/8
4 x 9 - 60ns (4MB)	25
1 x 36 - 60ns (4MB, 72 pin)	29
2 x 36 - 60ns (8MB, 72 pin)	49
4 x 36 - 60ns (16MB, 72 pin)	79
8 x 36 - 60ns (32MB, 72 pin)	149
16 x 36 - 60ns	399
EDO 1 x 32 - 60ns (4MB)	22
EDO 2 x 32 - 60ns (8MB)	35
EDO 4 x 32 - 60ns (16MB)	59
EDO 8 x 32 - 60ns (32MB)	119
Non Parity : 1 x 32 - 60ns	22
Non Parity : 2 x 32 - 60ns	35
Non Parity : 4 x 32 - 60ns	59
Non Parity : 8 x 32 - 60ns	119
Non Parity : 16 x 32 - 60ns	369

NOTEBOOK MEMORY (3rd party)

for AcerNote 374, Nuovo 971/ 972 - 8MB / 16MB / 32MB	95/145/499
for AST Ascentia 950N - 8MB / 16MB	115/165
for AST Ascentia J30 / J50 - 8MB / 16MB / 32MB	85/139/258
for AST Ascentia P30/ P50 - 8MB / 16MB	115/175
for Compaq Armada 4120 / 4130 - 8MB / 16MB / 32MB	95/155/269
for Compaq Contura 410 / 420 / 430 - 4MB / 8MB / 16MB	75/99/155
for DEC HiNote 433 / 450 / 475 - 4MB / 8MB / 16MB	59/89/145
for HP Omnibook 5000 / 5500 - 8MB / 16MB / 32MB	109/165/285
for IBM Thinkpad 365X / 560 / 760EX/ ED/ EL - 8MB / 16MB / 32MB	89/155/525
for NEC Versa 6030X / H - 8MB / 16MB / 32MB	105/165/295
for Panasonic CF-62EX / 25EX - 8MB / 16MB / 32MB	95/145/499
for Toshiba T1900 / T4500 / T200CS - 4MB / 8MB / 16MB	89/109/165
for Toshiba T2100 Series -4MB/8MB/16MB/24MB	65/89/135/195
for Toshiba Portege 610CT - 8MB / 16MB / 32MB	99/149/259
for Toshiba Portege 650/ 660CDT - 8MB/ 16MB / 32MB	95/145/275
for Toshiba Tecra 700 - 32MB	*(235)
for Toshiba Tecra 710/ 720/ 730CDT - 8MB / 16MB / 32MB	99/149/259
for Toshiba Satellite 430CDS/CDT / 100 / 200CDS/CDT - 8MB / 16MB / 32MB	99/149/259

PCMCIA Flash RAM Card

4MB / 8MB /10MB /16MB/20MB	125/165/179/225/259w

OTHERS

Memory for Laser Printer upgrades	Call

10. MODEMS & FAXS

APOLLO

PCMCIA 33.6 w. AT&T chipset	115

BOCA

Anniversary SALE (5-in-1 multimedia)

SE14SRS 14.4 Sound Expression Int	***(79)**
SE34SRS 28.8 Sound Expression Int	***(129)**

DIAMOND

Supra Express 33.6 Fax PNP & Void Int oem	59
Supra Express 33.6 Fax PNP Int / Ext	75/89
Supra Express 56k Fax PNP Int / Ext	139/155
SupraNet Commander ISDN	209

HAYES (Prac. Peripherals)

Anniversary SALE

Accura 33.6 Fax Int / Ext	**149/159**
Optima 33.6 v.34 Fax Int	**239**
Optima 288 v.34 PCMCIA w. EZ jack	***(145)**
PC288HC 28.8 v.34 Fax, 230K DTE Int	***(219)**
PC288MT 28.8 v.34 Fax Ext	***(199)**
PM288HC 28.8 v.34 Int	***(85)**
PM336HC 33.6 Int	**85**
PM336MT 33.6 Ext	**119**

MEGAHERTZ

XJ1336 PCMCIA 33.6 Flash upgradable	209
XJ1560 PCMCIA 56k	224
XJ4288M PCMCIA Fax, cellular w. Motorola cable	249
XJ4336 Cellular Capable 33.6	225

MICROCOM

Deskporte 28.8S V.34 Fax Ext	*(115)
Deskporte 28.8P V.34 Ext Parallel	*(165)
Officeporte 33.6 Voice ASVD Ext	155

MOTOROLA

Anniversary SALE

BitSerfer ISA ISDN	***(245)**
BitSerfer TA210 ISDN Ext	***(249)**
BitSerfer Pro ISA ISDN Int	***(298)**
BitSerfer Pro ISDN Easy Ext	***(285)**
BitSerfer Pro ISDN Multilink PPP Ext	***(299)**
Modem Serfer 33.6 Int / Ext	**129/145**
Modem Serfer 56k Int / Ext	**142/159**
Montana PCMCIA 33.6	***(179)**
Montana 33.6 w. cellular cable	***(199)**
Online Serfer 28.8 Fax Int / Ext	***(95/99)**
Premier 33.6 Modem Int / Ext	***(179/199)**
Voice Serfer 33.6 Int / Ext	**149/165**

SIMPLE TECHNOLOGY

Communicator 56k PCMCIA w. Voice & Cellular Cap.	199

USRobotics

Anniversary SALE

Courier I-Modem #U with Analog Int / Ext	239/285
Courier I-Modem #2 v.34 w. NT1 Int / Ext	219/275
Courier I-Modem #3 v.34 Int / Ext	199/*(265)
Courier V. Everything 33.6 Int / Ext	*(199/229)
Courier V. Everything 56k Int / Ext	215/245
Sportster ISDN 128k Int	245
Sportster 28.8 Win Modem Int	95
Sportster v.34 33.6 Fax Int oem / reg.	*(89/129)
Sportster v.34 33.6 Fax Ext	*(149)
Sportster v.34 33.6 Fax for MAC	215
Sportster v.34 33.6 Fax/ Voice / Speaker Phone Int oem.	109
Sportster v.34 33.6 Fax/ Voice / Speaker Phone Int reg	149
Sportster v.34 33.6 Fax/ Voice Mail/ Speaker Phone Ext.	169
Sportster 56K Int / Ext	165/185
Sportster 56k w. Voice Int / Ext	195/215
Total Control Modem: Pool/8	2950
Total Control Modem: Pool/16	5560

WISECOM

Anniversary SALE

WS-2814IS6W 28.8 Data/ Fax/ Voice Int	**55**
WS-5614: 56k Data Fax Voice Int.	99

XIRCOM

CM-28 28.8 Fax PCMCIA	*(149)
CM-33 33.6 Fax PCMCIA	195

ZOOM

#2805 33.6 Fax Modem Int	*(95)
#2836 33.6 Fax Modem Ext	*(105)

11. MONITORS

ACER

78iE 17" 1600 x 1200 .26 NI	525

ARTMEDIA (Sony oem)

TX1664 15" 1280 x 1024 .25 NI	359
TN1885 17" 1600 x 1280 .25 NI	769
TX1864 17" 1280 x 1024 .25 NI	599
GT960T 20" 1600 x 1200 .25 NI	1489

**(price) .... SPECIALS , while supplies last*

TN2185T 20" 1600 x 1200 .30 NI	1285

DIGIVIEW

Anniversary SALE

HR-1709D 17" 1600 x 1200 .25 NI	**595**
HR-1434 14" 1024 x 768 .28 NI	189
HR-1508+ 15" 1280 x 1024 .28 NI	249
HR-1708 17" 1280 x 1024 .28 NI	465

HITACHI SuperScan

CM500U 15" Flat 1280 x 1024 .28 NI, 65hz	**(289)*
CM620U 17" Flat 1280 x 1024 .28 NI	545
CM630U 17" Flat 1600 x 1200 .28 NI	675
CM751 19" 1600 x 1200 .26 NI, 75hz	1069
CM2011M 20" 1600 x 1200 .28 NI	1165
CM800U 21" 1600 x 1200 .22 NI	1389
CM802U 21" 1600 x 1200 .22 NI	1639
CM803U 21" 1800 x 1440 .22 NI, 77hz	1675

IBM (touch screen)

G41T 14" Touch Monitor .28	895
G50T 15" Touch Monitor .28	985
G70 17" 1280 x 1024 .28, 60hz, FST	785
G70T 17" Touch Monitor .28	1465
P70 17" 1600 x 1200 .26, 60hz	995
G200 20" 1600 x 1200 .28, 60hz	1385
P200 20" 1600 x 1280 .31, 60hz	1785
P201 20" 1600 x 1200 .26mm, 85hz	2445

IIYAMA

Anniversary SALE

MF-8515G 15" 1280 x 1024 .28 NI	**325**
MF-8617E 17" 1600 x 1200 .26, 69hz, NI	**545**
MT-9017E 17" 1600 x 1200 .25, 72hz, NI	***(625)**
MF-8221E 21" 1600 x 1280 .22, 76hz, NI	**1285**
MF-8721 21" 1800 x 1440 .22 NI, 74hz	**1435**
MT-9021E 21" 1600 x 1280 .30, 76hz, NI	**1269**

IMPRESSION

3 Plus 14" 1024 x 768 .28 NI	179
5 Plus 15" 1280 x 1024 .28 NI	249
7 Plus 17" 1280 x 1024 .28 NI	465

KFC

CA1515DS 15" Flat 1280 x 1024 .28	**(269)*

KOMODO (2 yr warranty)

Anniversary SALE

H40 14" 1024 x 768 28 NI, Digital	**(175)*
H51 15" 1280 x 1024 .28 NI, Digital	**(225)*
H73 17" 1280 x 1024 .28 NI, Digital	445
Vienna Pro 17" 1600x1200 .25 NI	649

MAG

DX15T 15" 1280 x 1024 .26 NI	**(359)*
DJ700 17" 1280 x 1024 .26 NI	579
DJ702 17" 1280 x 1024 .26 NI	**(569)*
DX700T 17" 1280 x 1024 .25	665

MAXTECH (GVC, 3 yr warranty)

XT-7800 17" 1280 x 1024 .28 NI	459

NANAO

FX-C5 17" 1280 x 1024 .26 NI	739
FX-C6 17" 1280 x 1024 .26 NI	819
T2.17TS 17" 1280 x 1024 .25, Diamondtron	899
TX-C7S 17" 1600 x 1200 .25, Trinitron	999
TX-D7S 20" 1600 x 1280 .30 NI	1675
FXE8 21" 1600 x 1280 .26 NI	2245

NEC

A700 17" 1280x1024 .28 NI	**(579)*
E500 15" 1280x1024 .25 NI	**(359)*
M500 15" 1280 x 1024 .25 NI	*379*
M700 1280 x 1024 .25 NI	**(759)*
P750 17" 1600 x 1200 .25	859
XV17 Plus 17" 1600 x 1200 .28 NI	**(679)*
E1100 21" 1600 x 1200 .28 NI	**(1349)*
P1150 21" 1600 x 1200 .25, 75Hz.	**(1549)*
XM3750 37" 1024 x 768 Multimedia Monitor	5475
XP3778 37" 1280 x 1024 Data Monitor	7795

NOKIA

447L 17" 1024 x 768 .28 NI	**(615)*
447XAV 17" 1600 x 1280 .25 NI	985
447Xi 17" 1600 x 1280 .25 NI	**(825)*
445XAV 21" 1600 x 1280 .26 NI	1845
445Xi 21" 1600 x 1200 .26 NI	1739

OPTIQUEST

V655 15" 1280 x 1024 .28 NI, Digital	329
V775 17" 1600 x 1200 .26 NI	625
2082DC 20" 1600 x 1200 .28	1199

PANASONIC

P17 Pro 17" 1600 x 1280 .25 NI	**(715)*
PM17 17" 1280 x 1024, Multimedia	**(619)*
S17 17" 1024 x 768 .27	579
E21 21" 1600 x 1280 .25 NI, 67hz	1385
P21 Pro 21" 1800 x 1440 .25 NI, 71hz	**(1675)*
S21 21" 1600 x 1280 .25 NI, 72hz	1495

PRINCETON

EO70 17" 1280 x 1024 .28 NI	525
EO75 17" 1600 x 1280 .26 NI	619

Ultra 17 Plus 17" 1600 x 1280 .8 NI	579

SAMSUNG

17GLSi 17" 1600 x 1280 .26 NI, TCO92	725
20GLSi 20" 1600 x 1200 .28 NI, at 66Hz	1235

SCEPTRE (3 yr warranty)

P401 14" 1024 x 768 .28 NI, Digital	189
P531 15" 1280 x 1024 .28 NI, Digital	265
P73A 17" 1280 x 1024 .26 NI, Digital	489
P73B 17" 1280 x 1024 .26 NI, Digital, Black	525

LCD PANEL: (1 yr warranty)

CD-1111S 11.3" DSTN, 800 x 600, 64k color	999
CD-1112T 12.1" TFT, 800 x 600, 256k color	1895
FT15 15" TFT LCD 1024x758 Color	2699

SHAMROCK

SRC-1407 14" 1024 x 768 .28 NI, Digital	179
SRC-1502L 15" 1280 x 1024 .28 NI, Digital	245
SRC-703LD 17" 1280 x 1024 .28 NI, Digital	459
SRC-705 17" 1600 x 1280 .26 NI, Digital	485

SONY

CPD-100SF 15" 1280 x 1024 .25, 60hz	385
CPD-100SX 15" 1280 x 1024 .25, 60hz	345
17SEII 17" 1600 x 12000 .25 NI, plug & play	**(869)*
CPD-200SF 17" 1280 x 1024 .25 NI, 75hz	725
CPD-200SX 17" 1280 x 1024 .25 NI, 60hz, PNP	629
20SEII 20" 1600 x 1200 .25 NI	1799
CPD-300SFT 20" 1280 x 1024 .30, 80hz	**(1399)*

TVS

9" 1024 x 768 VGA Mono	119

ViewSonic

E641 14" 1024 x 768 .28 NI	219
E655 15" 1024 x 768 .28 NI	295
15GA 15" 1280 x 1024 .28 NI, built-in speakers	**(375)*
15GS 15" 1024 x 768 .28 NI	339
17EA 17" 1280 x 1024 .28 NI, plug & play	565
17GA 17" 1280 x 1024 .27 NI, plug & play	**(625)*
17PS 17" 1600 x 1280 .25 NI, Pn'P , TCO	**(665)*
G771 17" 1280 x 1024 .27 NI	569
GT770 17" 1280 x 1024 .25	645
PT770 17" 1600 x 1280 .25	**(689)*
PT775 17" 1600 x 1280 .25, Sonictron	799
G800 20" 1600 x 1280 .28 NI	**(1035)*
GT800 20" 1600 x 1280 .30, Sonictron	1129
G810 21" 1600 x 1280 .30	**(1349)*
P810 21" 1600 x 1280 .25	**(1349)*
P815 21" 1800 x 1440 .25 NI	**(1499)*
PT813 21" 1600 x 1280	**(1449)*
29GA 29" 1280 x 1024 .75 stripe pitch	**(2195)*

WYSE

WY-15E 15" 1280 x 1024 .28 NI	399
WY-17E 17" 1280 x 1024 .28 NI	645
WY-17PS 17" 1280 x 1024 .25 NI	825
WY-55 Terminal 14" Amber/ Green/ White	275 ea.

ACCESSORIES :

VGA Monitor Splitter : 4 Port / 8 Port	155/195
VGA, Keyboard Switch : 4 Way	19.95
VGA, Keyboard & Mouse Switch : 2 Way	24.95
VGA, Keyboard & Mouse Switch : 4 Way	34.95

12. MOTHERBOARDS

ASUS (w/o cpu)

KN97X Pentium® II 440FX, ATX	285
P55T2P4 586-200, PCI, 512k, Burst SRAM	155
P6NP5 Pro 200Mhz, w. IDE I/O & 440FX chipset	249
P65UP5 Pro 200Mhz, dual Pentium® slots	545
TX97 512k,, TX chipset, w. Dimm socket	169
TX97E 512k, TX chipset, 4 Simm/ 2 Dimm	177
TX97XEATX 4Simm/2Dimm 512k / w. Sound	179/209
TX97X ATX, 512k, w. sound	205
XP55T2P4 586-200, PCI, ATX, 512k Burst SRAM	159
16MB, 2x72, for Asus board	105
32MB, 4x72, for Asus board	185

DFI (w/o cpu)

G586IPV P-200, 4PCI, 3ISA 256k	139
G586IPC P-200, ECC & Parity supported	175
G586VPS Pro-200Mhz, 256k, 4PCI, 4ISA	179

FIC (w/o cpu)

PA-2005 586-200, 256k, IDE I/O, VIA chipset	99
PT-2006 586-200, 512k, T3, IDE I/O	109
PT-2200 586-200, 512k, T2, IDE I/O	115
PT2007 586-200 512k TX, ATX 4Simm/2Dimm	139

intel. (w/o cpu)

Marl 586-200Mhz, ATX, w. 512k USB	135
Portland Pentium® II 440FX w. audio	285
Tucson II P-200Mhz, 512k, ATX, & sound	199
Venus Pro-200, IDE I/O, w. 440FX oem	179
Venus Pro w. USB oem	229

J-BOND (w/o cpu)

PCI500C-G2: P-200, 4PCI, EIDE, 430HX, 256k	109
PCI500C-G2: P-200, 4PCI, EIDE, 430HX, 512k	119
- w. AHA-2940UW SCSI on board, 512k	265
PCI500C-H2: P-200, 256k, EIDE, 430VX	
- w. AHA-2940 SCSI on board, 256k	159
PCI500C-H4: Pentium® II 266Mhz, 512k, VX (support Intel, K5, K6, Cyrix CPU)	105
PCI600A: Pro-200, 4PCI, IRDA, 440FX, ATX	199
- w. AHA-2940UW SCSI on board	345

M-TECH (w/o cpu)

486-DX4-133 256k PCI, 30-pin & 72-pin	115
586-200Mhz 256k w. Burst SRAM, T2, IDE I/O	139
Mustang-R534 586-200Mhz, 512k, w. IDE I/O	145
R539 512k, TX chipset, 4 Simm / 2 Dimm, EIDE	145
R557 512k, TX chipset, ATX, 4 Simm / 2 Dimm	165
R653 Pentium® II 440FX, ATX, EIDE I/O	245

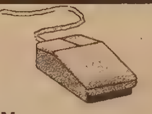
SUPERMICRO USA (w/o cpu)

P5MMA ATX, 512k, TX chipset	152
P5MMS 512k, TX chipset	149
P5MMA 98 ATX w. 512K TX chipset	169
P5MMS 98 w. 512k TX chipseet	165
P5STE 586-200 512k, PCI, EIDE I/O, T2, 512k	155
P6DNE Pro 200Mhz, dual Pentium® slots	349
P6DNF Pro 200Mhz, dual Pentium® slots, w. IDE I/O & 440FX chipset	**(399)*
P6DNH Pro 200Mhz, dual Pentium® slots, w. IDE I/O & 440FX chipset	719
P6DKF Dual Pentium® II 440FX, IDE I/O	409
P6SAS Pro 200Mhz, 2940UW, ATX	325
P6SKE Pentium® II 440FX, ATX, EIDE I/O	275
P6SKS Pentium® II 440FX, ATX, SCSI & EIDE	359
P6SNA Pro 200Mhz, ATX	259
P6SNE Pro 200Mhz, w. IDE I/O & 440FX	269
P6SNS Pro 200Mhz, w. 2940UW	345

TYAN (w/o cpu)

1470 Titan VX w. 256k Pipeline cache	145
1472 Titan VX w. 256k Pipeline cache, ATX	149
1563D Tomcat III P-200, 512k, dual	225
1563S Tomcat III P-200, 512k, 430HX	175
1570 w. 512k, 430TX chipset	155
1572 w. 512k, 430TX chipset, ATX	157
1662D Titan Pro-200, dual, 440FX	359
1662S Titan Pro-200, 3ISA, 5PCI, 440FX	259
1668D Titan Pro-200, dual, ATX	319
1682D dual Pentium® II 512k ATX	345
1680S Pentium® II 512k ATX	285

13. MOUSES & JOYSTICKS



KENSINGTON

Expert Bus 5.0	115
Expert Serial & Trackball 5.0	**(89)*
Mouse in a Box	**(26.95)*
Orbittrack Ball	52
Thinking Mouse (Serial & PS/2)	**(59)*

LOGITECH

Cordless Mouseman 96 / Pro	69/75
Mouseman 96 / Mouseman Bus	52/64
Mouseman Sensa	29
Serial Combo PC & PS/2 oem / reg	29/45
Trackman Live Cordless	125
Trackman Marble for Win'95 oem / reg	59/82

Microsoft

Ballpoint Mouse 2.0 (for notebook)	69
Bus 2.0 400dpi w. Bus Card oem / 5-Pack	65/325
Combo Mouse (Serial + PS/2)	49.95
Easyball w. Freddi Fish CD	49.95
Home Mouse Serial	29
IntelliMouse 3.0 for Win'95	**(69)*
- oem single / oem 5-pk	45/210
PS/2 2.0 (round connector) oem	35
Serial 2.0 400dpi oem	29

MOUSE SYSTEMS

Mouse! Serial w. Pad	19
Omni Mouse (new version)	26
PC Mouse III (3-button optical)	49.50
PC Trackball II	39.95
ProAgio (5-button serial)	39
Serial Bus Card (9IRQs) - 5 com	29

NEC

2-button King Mouse	19.99

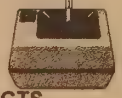
QTRONIX

Libra 90 Pro Trackball	35
Opto-Mechanical Mouse	7.50

OTHERS

AGILER ATB-610 Serial Trackball	19.95
AGILER Bus Mouse	23
ANCER 3-button Black	19
ANTEC Serial Mouse	**(6.95)*
GENIUS Netmouse Serial / PS/2	19.95 ea.
GENIUS Netmouse Combo (serial + PS/2)	24.95

JOYSTICK :



C.H. PRODUCTS

Flight Stick Pro / Pro Pedals	53/79.95
Virtual Pilot / Pro (Yoke)	68/75

LOGITECH

Wingman Extreme oem / reg	39/47
Wingman Standard w. free CD	**(29)*

MICROSOFT

Side Winder 1.0	29
Side Winder 3D Pro	67
Side Winder Game Pad	39

THRUSTMASTER

ACM Gamecard	29.95
F-16 FLCS	125
F-16 TQS	129
F22 Pro Flight Control (programmable)	139
Flight Control System MK II / w. US Navy Fighters	65/79
Flight Control System Pro	108
Formula T2	119
Rudder Control	109
UPROM	29.95
Weapon Control MK II	109
Wizzard (pinball controller + Royal Flush CD)	39
XL Action / w. EF2000 game	28/33.95

OTHERS

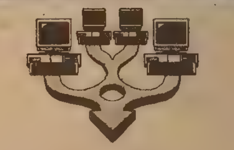
Cobra (by Mouse Systems)	**(9.95)*
Command Pad (by Quickshot)	**(5.99)*
CyberFlight Joystick + Dark Forces	39
Cyclone 3D	43
Dexxa Control Pad w. CD games	18
Game Card (add-on)	**(7.95)*
Game Gun + Crime Patrol	39
Gravis Eliminator Game Card 2 Port	19.99
Graivs Game Port Y Splitter	9.95 ea.
PC Analog Pro Joystick	19.95
PC Gamepad Pro	29
Power Ramp (10-in-1 gamdpad)	49.95
Walt Disney Mouse Pad	4.99 ea

- 101 Dalmations
- Pocahontas
- Toy Story
- Mickey Mouse
- Timon & Pumbaa
- Winnie the Pooh

Warner Brothers Mouse Pad	5.99 ea

- Bugs Bunny
- Homer Simpson
- Tasmanian Devil
- Tweety & Sylvester
- Daffy Duck
- Marvin the Martian
- Wile E Coyote

14. NETWORKS



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Please Call!

3Com

3C250A FMS 100BaseTX Fast 12 Port HUB	**(1165)*
3C509B TPO oem	**(59)*
3C509B-TPC (TP + BNC) oem / reg	*(79)/115
3C509B Combo reg / 5-Pack	119/499
3C515-TX Fast 10/100 ISA oem / reg.	135/145
3C562D PC-Card Modem 33.6 + Lan TPO	295
3C562D PC-Card Modem 33.6 + Lan Combo	339
3C575TX 10/100 PC Card	155
3C589D PCMCIA TP / 5-Pack	*(139)/675
3C589D PCMCIA Combo / 5-Pack	*(179)/875
3C597-TX EISA 10/100 TP	239
3C862 Impact ISDN U-Interface (w. NT1) Int	**(295)*
3C882 Impact IQ ISDN with V.32bis Ext	**(335)*
3C900 PCI TPO	105
3C900 PCI Combo oem / reg	*(99)/135
3C905-TX PCI 10/100 TP oem / reg	**(79/99)*
3C16170 Link Builder (12TP)	**(299)*
3C16405 Port Switch 40 Hub 12 Port	479
3C16406 Port Switch 40 Hub 24 Port	895
3C16590 Dual Speed 12 Port Hub	1195
3C16591 Dual Speed 24 Port Hub	1845
3C16670A Superstack II 12 Port Hub	**(469)*
3C16671A Superstack II 24 Port Hub	845
3C16700 TPO Office Connect HUB (8TP)	**(119)*
3C16701 TPC Office Connect HUB (8TP + BNC)	**(149)*
3C16720 Office Connect 100 HUB 8 Port	**(665)*
3C16730 Office Connect 10/100 Switch 4TP 1 Fast	**(775)*
3C16900A Switch 1000 24 Port 1 Fast	**(2275)*
3C16901A Switch 1000 12 Port 1 Fast	1599
3C16941A Switch 3000TX 8 of 100TX Port	1975
LANPLEX products	**call**

adaptec

ANA-6901 32 PCI Full Duplex TP / Combo	**(85/99)*
ANA-6910TX PCI Fast-TX, 32 bit bus mastering	175
ATM 25.6Mb/s PCI with 128k / 512k	299/389
ATM 155 Mb/s 512k PCI UTP	725
EM525 Ethernet 16 Combo	**(49)*
EM932 EISA 32 bit Coax / TP	**(98/99)*

ALLIED TELESYN

3012TR Workgroup Hub 12 Port (12TP+AUI+BNC)	175
3016TR Workgroup Hub 16 Port (16TP+AUI+BNC)	199
3024TR Workgroup Hub 24 Port (24TP+AUI+BNC)	259
MC12T: UTP - BNC Conversion Kit	119
MR815T Mini Hub 8 Port	69

**(price) .... SPECIALS , while supplies last*

http://www.centralcomputer.com for current prices & catalog

CENTRAL
COMPUTER SYSTEMS, INC.
WIDE SELECTION AT LOW PRICES

OUR SECOND COMMITMENT: INCREASING BENEFITS FOR OUR EMPLOYEES
FINANCIAL SECURITY - LEARNING OPPORTUNITIES - PROMOTIONAL ADVANCEMENT

We owe the success of our past 11 years to the hard work of our employees. We would especially like to recognize the contributions of Mr. Jim Gibson, who had been our customer before joining our technical team in 1989. Sadly, Jim passed away in April. His co-workers and customers will all miss him a great deal.

15. NOTEBOOKS / DESKTOPS / PALMTOPS

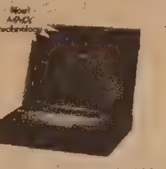
ACER

Nuovo 971: P-133Mhz, 16MB, 1.3GB, 6X CD, 28.8 modem, 11.8" TFT	3495
Nuovo 972: P-133Mhz, 16MB, 1.3GB, 6X CD, 28.8 modem, 11.3" DSTN	3095
Nuovo 975: P-166MMX, 32MB, 2GB, 10X CD, 33.6 modem, 12.1" TFT	4595
TI-610CD: P150, 16MB, 1.4GB 11.3" DSTN	1995
TI-610CDT: P150, 16MB, 1.4GB, 11.3" TFT	2575

ALCOM (Samsung oem)

FX-252: P133, 16MB, 1.4GB, 10X CD, 11.3" DSTN	1795
XL-354: P133, 16MB, 1.4GB, 10X CD, 12.1" TFT	2395
XL-380: P150, 32MB, 2.1GB, 10X CD< Li-ion, 12'1" TFT	2895

CHEM USA



ChemBook 2600: 16MB, 1.4GB, 10X CD, Zoom Video Ready, Win'95, 12.1" DSTN,	
- P133/ 166	1895/1995
- P166MMX	2095
- P200MMX	2295
Upgrades:	
- to 12.1" TFT	add 500
- to Li-Ion Battery	add 100
- to 2GB Hard Drive	add 150
ChemBook 6800: 16MB, 1.4GB, 11X CD, `12.1" DSTN, 3 PCMCIA	
-P133/P150/P166	1795/1825/1865
-P166MMX/P200MMX	1899/2045
Upgrades: (For 6800)	
-To 12.1" TFT	add 500
-To Li-Ion Battery	add 100
-To 2GB HDD	add 120
Chembook 9750: 16MB, 2GB, 10X CD, 12.1" TFT, Lithium Battery:	
-P166/P200	2665/2765
-P166MMX/P200MMX	2735/2875
Upgrades: (For 9750)	
-To 32MB RAM Built-in	add 120
-To 13.3" TFT (frm 12.1" TFT)	add 625
-To 16X CD-ROM Drive	add 50
ChemBook 2700 Ultra Screen 14.2" TFT, Support up to P233 MMX	Call

EVEREX

48 hr. nationwide manufacturer direct service

With 16MB, 10X CD, Win95 & MS Bundle

Cedar P150, 1.4GB, 12.1" DSTN	2175
Cedar P166MMX, 2.1GFB, 12.1" TFT	3295

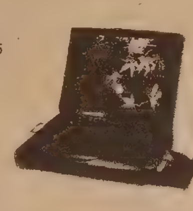
FUJITSU

Lifebook 635T: P133, 16MB, 1.3GB, 28.8 modem, 12.1" TFT	2245
Lifebook 655TX: P150MMX, 16MB, 1.3GB, 33 6 modem, 12.1" TFT	*(3545)
Port Replicator Enhanced Unit for 635 & 655	355

HITACHI

MX-166T: P166MMX, 16MB, 2.1GB, 8X CD, 33.6 modem, 10BT, 12.1" TFT	**(3295)*
VisionBook Plus: P-133, 16MB, 1.4GB, 10X CD, 33.6 Modem, 12.1" DSTN	1699
VisionBook Elite: P166MMX, 16MB, 10X CD, 56k Modem, 2.1 GB, 13.3" TFT	4895

HP

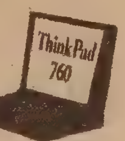


Omnibook 800CS/100 (F1171A): 16MB RAM, 772MB, 10" DSTN	2395
Omnibook 800CT/133 (F1175A): 16MB RAM, 1.3GB, 10.4" TFT	3195
Omnibook 800CT/166MMX (F1360A): 16MB RAM, 2GB, 10.4" TFT	4095
Omnibook 5500CTS/120 (F1324A): 16MB RAM, 1.3GB, 16-bit Sound, 10.4" TFT	**(2295)*
Omnibook 5700CT/150MMX (F1352A): 16MB, 2GB, 12.1" TFT	4445
Omnibook 5700CT/166MMX (F1353A): 16MB, 2GB, 12.1" TFT	4695
Upgrades: 10X CD Rom (F1347A): for 2000 / 5500 /5700	335

PALMTOP:

200LX 80 column 2MB (F1061A)	459
200LX 80 column 4MB (F1216A)	549
300LX 2MB, 640 x 240 (F1220A)	465
320LX 4MB, 640 x 240 (F1221A)	629

IBM



TP560: P-133Mhz, 8MB, 2.1GB, 12.1" TFT	3795
- w. 11.3" DSTN	1899
TP760ED: P-133Mhz, 16MB, 2.1GB HDD, 6X CD, 12.1" TFT	3995
TP760EL: P-133Mhz, 16MB, 2.1GB, 12.1" TFT	4645
TP760XL: P-166MMX, 16MB, 2.1GB HDD, 12.1" TFT	3899
TP760XD: P-166MMX, 32MB, 3GB, 8X CD, 28.8 modem, 12.1" TFT	4895

KEYTECH USA

KB6280: 16MB, 2.1GB, 12.1" TFT, 11X CD,	
w. P166Mhz / P200Mhz	2525/2595
w. MMX-166Mhz / MMX-200Mhz	2595/2825
KB6280: 16MB, 2.1GB, 11X CD, 12.1" DSTN,	
w. P166Mhz / P200Mhz	1985/2075
w. P166MMX / P200MMX	2065/2295
Win95	add $90

MAXTECH

753TS: 8MB RAM, 1.3GB, 8X CD, 11.8" TFT, support TV video, w. P133Mhz / P166Mhz	2125/2295
Upgrade to 12.1" TFT	add 280

RIX

AP6400: 16MB, 2.1GB, 11X CD, 12.1" TFT, - P133Mhz / P166Mhz / P166MMX	2485,2565,2635
Upgrades: - 32MB built-in	add 125
- w. Win'95 loaded	add 90
822: P-133Mhz, 16MB, 1.3GB, 6X CD, Win'95,	
w. 11.3" DSTNT	1665
w. 11.3" TFT	1995

SCEPTRE

S3900: 8MB, 1.3GB HDD, 11.3" DSTN, Win'95, - P100Mhz / P133Mhz / P150Mhz	1495/1645/1695
S4000: 8MB, 1.3GB, 10X CD, 12.1" TFT, Win'95, Li-Ion, - P100Mhz / P133Mhz / P150Mhz	2395/2585/2655
Upgrades: (For S3900 & S4000 Series Only)	
- 2GB HDD	add 125
- w. 16MB built-in	add 75
- w. 32MB built-in	add 195
S4500: P166MMX, 16MB, 12X CD, 33.6 Modem, Li-Ion 11.3GB/2GB	3445/3655

TOSHIBA

Portege 660CDT: P-150Mhz, 16MB, 1.35GB, 10X CD, 28.8 modem, 11.3" TFT	Call
Satellite 110CS: P-100, 8MB, 810MB, 11.3" DSTN	1245
Satellite 220CDS: P133, 16MB 1.4GB,10X CD, 12.1 DSTN	2085
Satellite 425CDT: P-100, 8MB, 810MB, 6X CD, 11.3" TFT	1999
Satellite 430CDT: P-120, 16MB, 2.02GB, 10X CD, 11.3" TFT	2295
Tecra 500CDT: P-120, 16MB, 1.2GB, 12.1" TFT, 6X CD, 28.8 modem	2945
Tecra 500CS: P-120, 16MB, 1.2GB, 12.1" DSTN, 28.8 modem	1750
Tecra 510CDT: P-133, 16MB, 2.1GB, 12.1" TFT, 10X CD, 28.8 modem	3385
Tecra 730XCDT: P-150MMX, 16MB, 1.2GB, 6X CD, 12.1" TFT, 28.8 modem	4795
Tecra 740CDT: P-166MMX, 16MB, 3GB, 10X CD, 28.8 modem, 13.3" TFT / w. Docking	57996350

TWINHEAD

Slimnote 700C: 11.3" DSTN, 1GB HDD, Win'95, 16MB,	
- w. P-120	1199
- w. P-133	1299
Slimnote 700T: P-133, 1.2GB, 16MB Win'95, 11.3" TFT	1495
Slimnote 700PCMCIA 10X CD Ext	315
Slimnote 9133T: P-133, 12.1" TFT, 10X CD, 33.6 modem, Win'95, Lithium Ion Battery,	
- w. 1.3GB HDD	2799
-w. 2.1GB HDD & 16MB / 32 MB	2999/3165
Slimnote 9133V: P-133, 11.3" DSTN, 1.3GB 16MB RAM, 10X CD, Win'95	1945
- w. built-in modem	add 175
- w. 16MB RAM add-on	add 195
- w. 11.3" TFT	add 525
- w. Lithium Ion Battery	add 100
Slimnote 9150T: P-150, 12.1" TFT, 32MB RAM, 2.1GB, Win'95, 10X CD, Lithium Ion Battery	3195
Slimnote 9166T: P-166MMX, 12.1" TFT, 2.1GB, 32MB, 33.6 modem, 10X CD, Win'95, Li-Ion	3795
- upgrade to LCD 1024x768	add 300

US ROBOTICS

Palm Pilot Personal 512k	279
Palm Pilot Prof. 1MB	369
- Belt Crib Case	24
- Cradle for Windows	29
- Deluxe Leather Case	58
- Palm Pilot Modem	129
- Pen 3-pk	7.99
Pilot 1000 Pocket Organizer	**(199)*
Pilot 5000 Pocket Organizer	**(235)*
- 1MB upgrade	**(99)*
- Cable for MAC / Pen 3-pk	25/7.95

ACCESSORIES

Kensington: Wet Suite for palmtop	11.50
Kensington: Saddle Bag (Brown)	*(59.95)
Kensington: Port: MicroSaver	39.95
Port: DEFCOM I (motion-sensor)	49
Targus: Leather Convertible Backpack (CLC-1)	89
Targus: Notepad Case (CN01)	29.95
Targus Notepad Plus (CNP-1	45
Targus: Player Pad Case (23125)	49.95
Targus: Universal Carrying Case (CUN-1)	65
Targus: Universial APS Case (CUN-1A)	66

Notebook Memory see Cat.#9 (pg.2)

Desktop Systems

DIGITAL

Celebris FX2: P200 MMX, 32MB, 3.2GB, 12X CD, Win NT 4.0	1999
Prioris XL 6200: P-200 PRO, 32MB, 2GB, 12X CD	2750
Venturis FX2: P166, 16MB, 2GB, 12X CD, Win95	1195

HP

Vectra 525MCX: P166MMX, 24MB, 2.5GB, 16X CD, 33.6 Modem, Win 95	1499
Vectra VL5/200MT (D4577A): P200, 16MB, 2.5GB, 8X CD, Win 95	1495
Vectra XA5/200 (D3993A): P200MMX, 16MB, 2.5GB, 8X CD, Ethernet 10/100 Win 95	1750
Vetra XA/200MT (4776N): Pro-200, 32MB, 2.5GB, Win NT 4.0, Ethernet 10/100, 8X CD	2745

IBM

300GL (628238U): P166, 16MB, 2.5GB, 16X CD Win 95	1145
300XL (658812U): PII-233, 32MB, 2.5GB, 16X CD Win 95	2050
300XL (65881U): PII-266, 32MB, 4.3 GB, 16X CD Win NT 4.0	2950

*** Please Call for Models that are not listed ***

NETWORK (con't)

MR820TR MicroHub 8 Port (8TP + AUI + BNC)	115
MX26F Fiber Optics Transceiver	145
MX40F Fiber Optics Transceiver	139

APOLLO

PCMCIA Lan Ethernet Adapter Combo	79

ARTISOFT

Extra Mail for Win'95	215
I-Share 2.0 (internet for Lantastic)	179
Lantastic 7.0 for Single - CD / FD	85/89
Lantastic 7.0 10-user - CD / FD	355/359
Lantastic 7.0 1-user Add On	129
Lantastic 7.0 Starter Kit 2-user - CD+FD	249
Lantastic 7.0 Unlimited User - CD	725
Lantastic PowerSuite :	
- 1 / 5 / 10 / 25-user	149/599/1075/2295
- conversion for 1 / 5 / 10-user	89/345/595
NR-Pro 2000A Combo / 10-pack	85/755
NR-Pro 2000T TP / 10-pack	79/625

ASANTÉ

10T HUB 8 Port (8TP + 1BNC)	**(115)*
10T HUB 12 Port (12TP + 1BNC + 1AUI)	**(219)*
10T HUB 24 Port	**(345)*
Fast 100BaseTX 12 Port Hub, stackable	**(1475)*
Fast 100BaseTX 12 Port PNP	**(1195)*
FriendlyNet 5 Port Hub TP	**(62)*
FriendlyNet 8 Port Hub TP	**(69)*

ASCEND

P25-IU-FX: ISDN Pipeline 25 + 4 Ethernet	**(455)*
P25-IU-PX: ISDN Pipeline 25 + IP Routing	**(525)*
ISDN Pipeline 50 w. UBRI	**(599)*
- w. Secure Firewall P50	add 350
ISDN Pipeline 75 w. UBRI	**(675)*
- w. Secure Firewall P75	add 350
ISDN P130-UBRI-FT1	**(1295)*
- w. Secure Firewall P130	add 690
MAX200+ (M201 - 4BRIU)	2975
MAX1800 (MX18 - 8BRIU)	**(4995)*

Bay Networks

AT2202001 Bay Stack 100BT 12 Port	1595
CG1001E01 Bay Stack 12 Port	599
CG1001E02 Bay Stack 24 Port	975
Lattislink 2800A: 16TP + 1AUI	559
Lattishub 2803: 16TP + 1AUI Stackable	599
Lattisswitch 28115R 10/100 TP 16 Port	7795

CASTELLE

FaxPress 1500N Ether 1 Line for NW & NT	1995
Office Connect Ether 2P Printer Server	299
Office Connect Ether 1 Line Fax Server	1195

CHEYENNE

Arc Serve 6.1 for Win - 5 to 25-user (netware)	**(395)*
- upgrade Workgroup edition	239
Arc Serve 6.1 for Win - 50 to 1000-user	1095
- upgrade Workgroup edition	415
Arc Serve 6.0 for Win NT 4.0 Single Server	**(399)*
Arc Serve 6.0 for Win NT 4.0 Enterprise	**(699)*
Arc Serve 6.0 for Win NT Workstation	185
Arc Serve for Mac - 5 / 20-user	159/309
Arc Solo Backup s/w for Dos / for Win	119/118
Fax Server NLM 5.0 - 5 / 10 / 25-user	355/639/999
Inoculan for Netware Server 4.0 Unlimited	585
Inoculan for Win'95 (Anti-Virus)	45
Inoculan for Win NT Server	575
Inoculan for Win NT Workstation Client	46

CISCO

CPA-762 ISDN BRI w/ NT1	525
CPA1604 Bridge w/ NT1	1295
CPA-2501 Router 1 Ethernet / 2 Serial	1695
CPA-2514 Router	2195

CNet (Advanced Network)

930 PCI PNP Full Duplex	**(29)*
2000E+ PNP ISA Combo	27
4020ERP 2 Port Coax Repeater	165
8800TPC HUB: (8TP + BNC)	**(79)*
8816TPC HUB: (16TP + BNC)	**(159)*

DANPEX

2900P2 PCI Combo	**(34)*
3270 Emulation for PC / for PS/2	175/195
5250 Emulation for PC / for PS/2	199/235
6200P2 PCMCIA (type II) BNC+TP	85
9400P3 32bit PCI Combo (DEC, full duplex)	**(69)*
EN-1600 16 Port HUB R.M.	**(159)*
ER-200 2-port Repeater Coax	185
ER-400 4-port Repeater Coax	299
ET-509 Translator (UTP to BNC)	109
ET-510 Translator (UTP to AUI)	107
FE-1000TX ISA 10/100BaseTX	**(98)*
FE-1400TX PCI 10/100BaseTX	**(99)*
Print Server (2P 1S) NW / Unix / Appletalk	**(235)*

DIGI INTERNATIONAL

IMAC Bridge 1 ISDN	1165
IMAC Bridge Dual IMAC	1595
PC IMAC - ISA: Server, 1 ISDN	525
PC IMAC / 4-1: Multi-ISDN Expansion	665

FARALLON

Mac & PC Connection products	Call

FRONTIER

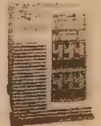
Super TCP / SuperWeb	Call

HEWLETT PACKARD

Anniversary SALE

Advanced Stack 8 Port HUB (J2610B)	245
Advanced Ethernet Hub 8E (J3128A)	185
J2550B Jet Direct TP	299
J2552B Jet Direct Combo	345
J2573A 10/100 VG Selectable ISA	169
J2585B 10/100 VG Selectable PCI	135
J2590A Jet Direct EX Plus 3 for 100VG	549
J2591A Jet DirectEX Plus Combo	295
J2593A Jet DirectEX Plus 3 Combo	395
J3175A Advanced Switch 208T	1045
J3200A Advanced Switching 12 Port	425
J3201A (J3200A) + SMNP (J3210A)	**(499)*
J3202A Advanced Switching 24 Port	825
J3203A (J3202A) + SMNP (J3210A)	**(899)*

NETSERVER :



D4841B 6/200 LH PRO Pro 200, 32MB /1GB max ECC, 256k L2, 6-hot swap shelves 2 UW SCSI-3 Controller, CD, 3yr onsite warrenty from HP Optional: Redundant Power Supply Upgradable to Dual CPU	6695
D4315B 6/200SMP LX PRO	17295

*(price) .... SPECIALS, while supplies last (oem) .... $, bundled with hardware only

http://www.centralcomputer.com for current prices & catalog

D4840A LH PRO P6/200	4850
D4934A E40 P6/200	2650
D4937A E40 P6/180	1999
HP Support Pak (Extended Warrenty)	call

IBM

Token Ring 16/4 Turbo ISA (72H3482)	245
Token Ring PCMCIA 16/4 Auto	349

intel.

EE11TX 12 Port 10 & 100 Dual Speed Hub	999
- bundled with 10 of PILA 8465B	*(1625)
ES101-TX Switching Hub 10/100	*(2099)
EILA 8225 EtherExpress 32 Flash EISA Combo	219
EILA 8265 PRO/100 for EISA	*(199)
EtherExpress Pro 10 bit cards :	
- PCLA 8210 BNC+TP oem / reg / 5-pk.	*(65/95/325)
- PCLA 8220 TP reg / 5-Pack	*(89/315)
- PCLA 8205 Flash BNC+AUI+TP	135
- PCLA 8215 Flash BNC + TP	125
- PCLA 8225 Flash TP	115
LANdesk Virus Protect 4.0	945
MBLA 1600 PCMCIA 10/100	*(159)
PCLA 2451 Netport Express Pro/100 Ext	359
PCLA 3151 Netport Express Pro Int.	295
PILA 8465B PRO/100 PCI TP oem / 5-Pack.	*(69/375)
PILA 8480 Pro 100 Server Adapter	485
PILA 8500 PRO/10 PCI Combo oem	*(85)
PILA 8520-TPO PRO/10 PCI oem	*(69)

KINGSTON

Etherx 10/100 Fast PCI	74
Etherx 10BT PC Card	95

LANPRO

EN2000PXA PNP Full Duplex Combo	*(29)
- w. Novell Personal Netware	*(54)
EN5200PX PCI Combo	*(32)
Fast 100 HUB 8 Port / Stackable	*(459)
Fast 100 HUB 12 Port	*(599)
HUB : 5 Port (5TP)	*(55)
HUB : 8 Port (8TP + BNC)	*(75)
HUB : 16 Port (17TP + 2AUI + 2BNC)	*(175)
PS1000A Print Server Simple Port	139
SD200 2 Port Easy Switch 10 BT & 100TX	445

LINKSYS

Fast 100TX 4 Port Hub Stackable	195
Fast 100TX 8 Port Hub	359
Fast Switch 10/100 TX 2 Port	395
Fast Switch 10BT & 100TX 5 Port	1795

MEGAHERTZ

XJ10BC PCMCIA Ethernet Combo	*(165)
XJ10BT PCMCIA Ethernet TP	*(125)
XJEM 3336C Modem 33.6 + Lan Combo	325
XJEM 3336T Modem 33.6 + Lan TP	299

MICRODYNE (Eagle)

EH800E 8 Port HUB	*(119)
EH1200E 12 Port HUB	*(175)
NE 10/100 ISA	*(89)
NE 10/100 PCI	119
NE2000+ TP / 5 pack	*(75/329)
NE2000+ Combo / 5 pack	*(85/399)
NE2500 Combo, plug & play oem	*(35)
NE5500 32 bit PCI Combo	*(109)

MICROTEST

CD-Now for Netware: 25-user / 50-user	489/695
Disc View Pro	265
Disc Serv (includes Disc View)	529

NOVELL

Anniversary SALE

Intra Netware Kit for Small Business: (server + 5-user + 2 Danpex ISA Combo + 5 port 10BT hub)	*(545)

Intra NetWare 4.11:	
- 5 / 10 / 25-user	625/1250/2095
- 50 / 100-user	2895/3995
- 250 / 500 / 1000-user	7295/15995/30995
Intra Netware for Small Business (for < 25-user):	
- Server + 5 License	599
- 1 / 5-user license	59/225
Lan Workplace 5.0 single / 10-user	195/1295
Netware 3.12 (3.5" FD)	
- 5 / 10 / 25-user	*(675/1295/1895)
- 50 / 100-user	2695/3495
Netware Connect 2 Ports / 8 Ports	355/1375
Netware Connect 32 Ports	3895
Netware NFS v1.2C	2850
Netware NFS Service 2.1	2195
NFS Client for Lan Workplace	205
Unixware Personal Edition v2.01 - CD version	*(99)
Unixware SDK v2.1 - CD version	*(75)

PALINDROME

Network Archivist NLM 3.1A Backup	*(195)

SHIVA

LanRover/2E Plus 3.5 Async TP v.34	1695
NetModem/E 28.8 Ether BNC + TP	1295

SMC

Ether EZ Combo	115
Ether EZ TP (8416T) oem	*(58)
Elite Ultra 32 EISA Combo	*(195)
Etherpower PCI TP (8432T) oem	*(69)
Etherpower PCI Combo oem	*(85)
EZ Hub 100TX 8 Port	635
Tiger HUB: 100TX 12 Port	1195
Tiger HUB: 3212TC (12TP + BNC + AUI)	349
Tiger HUB: 3314T 14 Port	*(459)

WISECOM (5 yr warranty)

D300CT PCI Bus Mastering	*(39)
H008CAT 8 Port HUB (8TP + AUI + BNC)	*(75)
HI16CAT 16 Port HUB (16TP + AUI + BNC)	155
P200CT NE2000 ISA Combo, plug & play	26

XIRCOM

CE3-10BC PCMCIA Combo	*(139)
CE3-10BT PCMCIA TP	*(115)
CE3-100BTX 10/100 PCMCIA	*(129)
CEM33-BC 33.6 Modem + Lan Combo	*(299)
CEM33-BT 33.6 Modem + Lan TP	*(255)
PE3-10BC Pocket Adapter Combo	*(279)
PE3-10BT Pocket Adapter TP	*(259)

CABLES & ACCESSORIES :

Custom-made Cables, Cross-Overs available call

16. POWER SUPPLIES

APC
AMERICAN POWER CONVERSION

BF-250 Back-UPS Office Kit ($30 Rebate)	165
BK-280 Back-UPS (200W), 2 out	105
BK-400 Back-UPS (300W), 2 out	154
BK-450 Back-UPS (325W), 4 out	179
BK-600 Back-UPS (425W), 4 out	239
BK-900 Back-UPS (650W), 6 out	345
BP-280 Back-UPS Pro PNP, 2 out	159
BP-420 Back-UPS Pro PNP, 4 out	235
BP-650 Back-UPS Pro PNP, 4 out	289
BP-1000 Backup Pro, 6 out	375
SU-450 Smart-Net (486, 586 WS), 4 out	295
SU-700 Smart-Net (486, 586 FS), 4 out	365
SU-1000 Smart-Net (FS & WS), 6 out	495
SU-1400 Smart-Net (950W), 6 out	625
SU-2200 Smart-Net (1600W), 8 out	1095
SU-3000 Smart-Net (2250W), 8 out	1675
SUVS-420 Smart Value Server, 4 out	239
SUVS-650 Smart Value Server, 4 out	295
SUVS-1000 Smart Value Server, 6 out	415
PowerChute Plus :	
- for Novell	65
- for OS/2, Lan Server, 3 Com	75
- for Unix / Xenix	99
- for Win & Win'95	55
- for Win NT	69
Surge Arrest (PER 7)	17.99
Surge Arrest w. TEL (PER 7T)	22.99
Surge Network Strip (NET 7)	29.95
Surge Protector (P7)	9.99

PC POWER COOLING

CPUcool for 486 or 586-75 / 133 (1.9")	18.95
CPUcool for 586-150 / 200 (1.9W)	19.95
CPUcool for Pentium® Pro (3.2")	22.95
Silencer Slim 230 for Baby or Mid Tower	69
Silencer 230 Full Tower	89
Silencer 270 for Full Tower	124
- Slim for Baby or Mid Tower	114
Silencer 235 for ATX	84
Silencer 275 for ATX	124
Standard 230 for Full Tower	85
Turbo Cool 300 for ATX	126
Turbo Cool 300 for Full Tower	125
- for Slim (baby or mid tower)	115
Turbo Cool 400 for Full Tower / for Slim	*(176/175)
Turbo Cool 400 for ATX	199
Turbo Cool 450 for Full Tower (heavy duty)	285
Two-inOne 500 (slim, redundant)	215
Twinpower 900 (redundant)	895

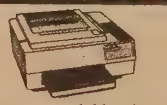
OTHERS

235W for ATX	49
250W for Baby or Mid Tower	29
250W for Baby or Mid Tower, PS/2 (by Kingspao)	45
300W UL for Full Tower, PS/2	49
300W for Full Tower, PS/2 (by Kingspao)	59
RPT-600 300W Redundant for Tower	179

ACCESSORIES

Battery Tester M-032	6.50
Belkin Power Authority F5C120	*(17.95)
DMM: DT-890B (A,V,O,C,Hfe)	19.95
DMM: DT-830B (Adc,V,O,Hfe) pocket size	8.95
DMM: KT-7113 (A,V,O,C,Hfe) auto ranging	24.95
DMM: KT-7244 (A,V,O,F,Hfe)	21.95
DMM: M-3900 (A,V,O,Hfe) big LCD	17.95
Power Center Switching Systems	13.50

17. PRINTERS / PLOTTERS



Printer memory available. Please call for $

ARGOX

Rabit214 Lable Printer w/ Software	529

BROTHER

HL-720 True 600dpi, 6ppm, Laser	325
HL-730DX True 600dpi, 6ppm, Laser	375
HL-1660 17ppm, Laser, 1200x600dpi	1185
MFC-4550 5-in-1, 600dpi, Laser, Fax	729
MFC-6550 6-in-1, fax/ copy/ scan/ print etc.	999

CANON

BJC-70 Color, 720x360dpi, 346cps	*(299)
BJ-240 Color, 360x360dpi, 4ppm	189
BJC-620 Ink Jet, Color, Par, 720dpi	*(339)
BJC-4200 Ink Jet Color, 360x720dpi	275
BJC-4550 11" x 17", 5ppm, 720x360dpi	475

EPSON

FX-870 9-pin	295
FX-2170 9-pin, Wide (max. 6 copies)	449
LQ-570 Plus 24-pin	259
LQ-870 24-pin, Par	455
LQ-2070 24 pin, Wide	*(389)
LQ-2170 24-pin, Wide	549
Stylus 400 Color, 3ppm, 720dpi	209
Stylus 600 Color Inkjet, 720x1440dpi	289
Stylus 800 Color, 8ppm, 720x1440dpi	419
Stylus 1500 720dpi, fit A - C size paper	485
Stylus 1520 Color	759
Stylus Photo (C209011)	449

Accessories :

Black Ink for II & IIS	19.95
Black Ink for 400/ 500/ 600	21.95 ea
Blakc Ink for 400/ 800 (SO20025)	12.95
Black Ink for 800 Color/ 1520	24.95
Color Ink for II & IIS	29.95
Color Ink for 400/ 600/ 800	24.95 ea
Coated Letter Paper 720dpi (S041062), 100 sheet	13.95
High Quality A4 Paper (S041111) , 100 sheet	9.50
Iron-On Paper (making T-Shirt)	15.95
Photo Quality A4 Paper (S041061), 100 sheet	12.95
Photo Quality Glossy (S041124), 20 sheet	10.95

HEWLETT PACKARD

Color Laser Jet 5 (C3961A)	3875
Color Laser Jet 5M (C3962A)	4945
Desk Jet 692C	295
Desk Jet 820CXi / 870CXi	*(285)/379
Desk Jet 1000CXi (C2673A), print size 4x5 - 11x17	485
Desk Jet 1600C PC, Mac	1299
Desk Jet 1600CM Postscript PC, Mac	1899
Laser Jet 4V / 4MV (B size)	1795/2595
Laser Jet 5 (C3914A)	999
Laser Jet 5M / 5N	1525/1285
Laser Jet 5Si / 5SiMX	2349/3395
Laser Jet 6LXi	389
Laser Jet 6PXi / 6MP	745/879
Mopier (C4176A) 5Si Bundle	6545
Office Jet 330 4-in-1, print/ fax/ scan/ copy	*(469)
Office Jet 590 4-in-1 (C4645A)	595
Office Jet Pro 1150C Color (C5300A)	939
Portable 340	295

PLOTTERS

Design Jet 350C: D Size / E Size	2195/2795
Design Jet 750C: D Size / E Size	4995/5695
Design Jet 755CM: E Size	8195

Accessories :

C3067A: Color Kit for 540	*(37)
C3169A: Postscript for 5Si	435
C3760A: Lower Cassette for 4V / 4MV	325
C3762A: Duplex for 5Si / 5SiMX	479
C3765A: Envelope Feeder for 5Si	379
C3918A: Postscript for 5 / 5N	335
C3920A: Duplex for 5 / 5N / 5M	475
C3921A: 500 Sheet Feeder for 5	225
C3927A: Power Envelope Feeder for 5	259
C4533A: Color Kit for 600	*(39)

Ink Cartridges :

(HP51626A) Black for 500, 540, 560	24.45
(HP51625A) Color for 500C, 550C, 560C	26.95
(HP51629A) Black for 600, 660	24.95
(HP51649A) Color for 660C	29.25
(HP51645A) Black for 870C, 855C, 1600C	26.95
(HP51641A) Color for 870C, 855C, 1600C	28.95
(HP51640A) Black for 1200C	23.95
(HP51640C) Cyan for 1200C	27.95
(HP51460M) Magenta for 1200C	27.95
(HP51640Y) Yellow for 1200C	27.95
(HPC3105A) Black for Color Laser Jet	7.95
(HPC3102A) Cyan for Color Laser Jet	32.95
(HPC3104A) Magenta for Color Laser Jet	32.95
(HPC3103A) Yellow for Color Laser Jet	32.95

Paper:

92296T: Transparency Film for Laser, Letter, 50 sheet	18.95
C1812A: Greeting Card, Letter, 20 sheet	11.95
C1846A: Photo Paper, Letter, 20 sheet	10.95
C2974A: Glossy, Letter for 5/ 5M, 50 sheet	41.95
C5973A: Premium Glossy, Letter, 25 sheet	22.95
C5976A: Bright White Inkjet, Letter, 200 sheet	6.95

Toner Cartridges :

(HP92295A) Toner for II, IID, III, IIID	75
(HP92275A) Toner for IIP, IIP+, IIIP	74
(HP92291A) Toner for IIISi, 4Si, 4SiMX	129
(HP92298A) Toner for 4, 4M, 4+, 4M+, 5, 5N, 5M	89
(HP92274A) Toner for 4L, 4ML, 4P	65
(HPC3900A) Toner for 4V, 4MV	139
(HPC3906A) Toner for 5L, 5ML	59
(HPC3903A) Toner for 5P, 5MP, 6P, 6MP	75
(HPC3909A) Toner for 5Si, 5SiMX	179

IBM (network printer)

#4312001: Laser, 12ppm, 600dpi, 4MB	1025
#4317001: Laser, 17ppm, 600dpi, 4MB	1365
#4324001: Laser, 24ppm, 600dpi, 4MB	2345

LEXMARK

Optra C 600dpi, 3ppm color, Postscript, 8MB	4495
Optra E 600dpi, 6ppm, 1MB	395
Optra LX+ 1200dpi, 16ppm, Par, Postscript, 4MB	1895
Optra R+ 1200dpi/8ppm, Ser & Par, 2MB, Postscript, 600dpi/16ppm	1049
Optra RN+: R+ w/ Ethernet TP	1285

MICROTEK

TrueLaser MTP-306 35 fonts, 6ppm, 2MB	*(599)

NEC

Superscript 860 Laser	*(379)

OKIDATA

ML184T 9 pin, Par (max. 5 copies)	235
ML320T 9 pin (max. 5 copies, 290cps)	*(325)
ML390T 24 pin, 312cps, for Win & Win 32	345
ML520 9-pin, 430cps	*(385)
ML590 24-pin (max. 5 copies)	449
ML591 24-pin, Wide (max. 5 copies)	625
OkiJet 2010 Color, 600dpi	*(199)
OkiPage 4W Laser 4ppm	*(289)
OL600E Laser, 6ppm, 600dpi	389
OL610E Laser, 6ppm, 600dpi, 2MB	485
OL610e/PS Laser Postscript	*(725)
OL810E Laser, 8ppm, 600x1200dpi	665
OL1200 Laser 12ppm, 600x600dpi, 2MB	*(949)

PANASONIC

3123 24 pin, Quiet, Scalable Fonts	259

SEIKO

Smart Label Printer EZ30	145
Smart Label Printer Pro	235
Standard Label (2 rolls)	7.95

SUMMAJET (Plotter)

1324C Color A - D Size	2250
1324M Mono A - D Size	1990
1336C Color A - F Size	2695
1336M Mono A - F Size	2465
D Size Stand / E Size Stand	325/365

OTHER ACCESSORIES

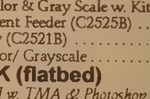
Auto Switch (non-power) 2 to 1	11.50
Auto Switch (non-power) 4 to 1	22.50
Data Switch: 2 Way / 4 Way	5.99/8.99
Parallel Auto Switch 2 to 1 bi-directional	19.95
Parallel Auto Switch 4 to 1 bi-directional	29.95

18. PROJECTORS

PROXIMA

Desktop DP5100 LCD	3499
Desktop DP5500 LCD 640 x 480, zoom	4599
Ovation 810 LCD 8.4" 2M Color, 640 x 480	1665
Ovation 944 10.4" LCD 16.7M 1280 x 1024	6395
Ovation+ 840 8.4" LCD 16.7M 800 x 600	2195
Ovation+ 846 10.4" LCD 16.7M 800 x 600	2695
Portable Overhead A653 3000 Lumens	475
Portable Overhead A655 4000 Lumens	799

19. SCANNERS



ACER (flatbed)

AcerScan 300F Color	*(165)

AVISION

AV100 Color	195
AV360C Color	199

DELRINA

WinFax Pro Scanner	*(299)

HEWLETT PACKARD

ScanJet 4C Color & Gray Scale w. Kit	749
- Auto Document Feeder (C2525B)	475
- Transparency (C2521B)	635
Scanjet 5P Color/ Grayscale	385

MICROTEK (flatbed)

Scan Maker III w. TMA & Photoshop OCR	*(1399)
Scan Maker E3 600dpi, 24-bit Color, w.OCR	*(195)
Scan Maker E6 1200dpi, w. OCR	*(339)
Scan Maker E6 Pro 1200dpi w. Photoshop OCR	529
Scan Maker V300 w. Paperport	225
Slide Maker 35T 1800dpi, 16.8M Color, w. ScanWizard	725
Transparency Adapter for E3	285
Transparency Adapter for E6	285

STORM TECHNOLOGY

Easy Photo Reader Parallel	135
Easy Photo Smartpage Color	175

(price) .... SPECIALS, while supplies last

(oem) .... $, bundled with hardware only

http://www.centralcomputer.com for current prices & catalog

UMAX

Astra 600S w. Photo Deluxe	245
Astra 1200S Win Deluxe	445
Astra 1200S Win PS	635

20. TAPE BACKUPS

EXABYTE

Eagle TR3 (603003-004) 3.2GB Int w/o card	*(145)
EXB-8205XL 8mm Dat. 3.5 - 7GB Int / Ext.	1275/1499
EXB-8505XL 8mm Dat. 7 - 14GB Int / Ext	1850/2095
EXB-8700E 8mm 7 - 14GB Ext	925
EXB-8700LT 8mm 5 - 10GB Ext	675

HEWLETT PACKARD

C1534 4mm Dat. 2GB SCSI Int	*(549)
C1536 4mm Dat. 2-4GB SCSI Int	*(595)
C1554 Dat. 24GB DDS-3 Int	1045
C1599 Dat. 8GB DDS-2 Int	765
Colorado T1000 850MB Travan w. cartridge Int	*(139)
Colorado T1000 850MB, printer port Ext	175
Colorado T3000 3.2GB Travan w. cartridge Int	189
Colorado T4000S 8GB Travan Int	359
HP Mounting Frame to 5.25" for C1534/ C1536/ C1599	25
HP Mounting Frame to 5.25" for C1533/ C1554	27

IOMEGA

Ditto 800MB Travan Int	89
Ditto 800MB Travan Parallel	139
Ditto 2GB Int / Ext	129/179
- 2GB Tape / 3-pack	19.95/57
Ditto 3200MB (QIC 3010/ 3020) Int.	209
Ditto 3200MB (QIC 3010/ 3020) Parallel	239

NOVASTOR (software)

Novaback CD Bundle (multi-platform)	*(59)

SEAGATE

Anniversary SALE

CNR-4324RP 2 - 4GB SCSI Int	*(575)
CNR-4326RP 4mm 8GB SSCSI w. 5.25" rail	*(725)
Tape Stor w. cartridge 420MB Int	139
Tape Stor w. cartridge 800MB Travan Int	139

Software (Arcada):

Back Up for Windows '95	65
Back Up Exec for Netware WS 7.0	98
Back Up Exec for Netware Enterprise 7.11	845
Back Up Exec for Netware Single Server	*(399)
Back Up Exec for Netware 1 Server 25-user	315
Back Up Exec for Win NT Enterprise 6.11	795
Back Up Exec for Win NT Server 6.11	395
Back Up Exec for Win NT Workstation	189

SONY

LanBacker 7000: 8GB DDS-2 w. ArcServe Single Server Internal / External:	1095/1175
WanBacker 7000: *GB DDS-2 w. ArcServe Enterprise Internal / External	1695/1795
WanBacker 9000: 24GB DDS-3 w. ArcServe Enterprise Internal / External	2150/2175

TEAC

FT-3008TR 800MB Travan Int	*(49)

OTHERS

COMBYTE: DP1800EA 800MB Int	135

TAPE CARTRIDGES:

3M - 4mm 90M	7.50
- 8mm 112M	6.95
- MC3000XL (680MB)	26.50
- Travan (800MB) TR-1	27.95
- Travan (1600MB) TR-3 / TR-4	29.95/34.95
EXABYTE - 8mm 112M, 5GB	9.95
- 8mm 160MXL (for XL drives)	15.95
- 18C 8mm Cleaning Cartridge	19.95
- EXMC 3000XL (1GB)	26.95
- MC3000XL (680MB)	21.95
HP - 92283B 4mm 90M (2GB) / 5-pk	8.50/39
- 92283K 4mm Cleaning Tape 2-pk	21.95
- 92300A 4mm 120M (4GB) / 5-pk	19.95/95
- C1517A 4mm 125M (12GB) DDS-3	29.99
- C1572A 4mm 120M Autoloader	119
- Travan for DT-1000 / 2-pk / 3-pk	29.95/54.95/82
MAXELL - 4mm 90M Dat.	*(7.99)
- DC2120 (QIC80)	9.95
- DC2120XL (350MB)	16.95
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- 4mm 90M for DDS-1	8.95
- QIC-Wide 3010 (850MB)	24.95
- QIC-Wide 3020 (1.7GB)	27 95

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3D Pro Turbo 8MB PCI, PC2TV	*(235)
All-in-1 Wonder 4MB PCI	*(249)

DIAMOND

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Fire GL 1000 8MB PCI	299
Stealth 3D 2400XL 4MB PCI	125
Stealth 3D 3240XL 2MB PCI VRAM	159
Stealth 3D 3400XL 4MB PCI VRAM	185
Stealth 3D Audio Monster Soud reg	189
Stealth 3D Monster 4MB PCI	189
Stealth 2500 1MB DRAM PCI	49
Stealth 2500 2MB DRAM PCI	65
Stealth Video 64 2MB VRAM PCI, upgradable	109

HERCULES

Dynamite 128 PCI 4MB SMDRAM.	119
Stingray 128 3D 6MB EDO	249

IMS

TwinTurbo 128P PCI VRAM w. 2MB / 4MB.	195/265
TwinTurbo 128P PCI VRAM 8MB	395

LEAKTEK

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Winfast 280 VGA & MPEG-1 w. 1MB / 2MB.	145/165
Winfast 430 VGA 2MB VRAM	135

MATROX

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Rainbow Runner (For Mystique/Millennium II)	245
Memory Upgrade (Millennium): 2MB/4MB/6MB	85/149/199

NUMBER NINE

Imagine 128 Series II PCI 4MB VRAM	***(259)**
Imagine 128 Series II PCI 8MB VRAM	***(439)**
FX Reality 332 3D DRAM PCI 2MB	95
FX Reality 772 VRAM PCI 2MB	*(125)
FX Reality 772 VRAM PCI 4MB	*(185)
Imagine 128 Series II 4MB EDO PCI	*(229)

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Tarantula 3D DRAM PNP w. 2MB / 4MB	75/99
Tarantula 64 MK II 2MB VRAM PCI	105
Tarantula 64 MK II 4MB VRAM PCI	135

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Boca Voyage Movie Player Accelerator VGA	285
Movie Plus 1100 MPEG Decoder	199
Televiewer / Televiewer Plus	139/189
Trident 8900 1MB ISA	45
Trident 9680 1MB PCI	39
Trident 67TV 3D 2MB EDO DRAM PCI, w. 9685	75
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Tvator Remote Pro VCA to NTSC Scan Converter	289
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Epson PC Color Digital Camera	345
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Epson Photo Pix LCD Monitor	175
Howard Video Camera	295
Intel Smart Video Recorder III	189
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Kodak DC25 Digital Camera	435
Kodak DC50 Digital Camera Zoom Lens	*(649)
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USR: Big Picture w. Camera	349

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- competitive upgrade	265
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Slope Style	24
Triple Play 98	45
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INSTALLATION

CD Rom Drive	20
Hard Drive: Primary (1st drive)	20
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http://www.centralcomputer.com for current prices & catalog

Web Page Listings

continued from page 185

San Gabriel Valley Chiropractic Society *http://home.earthlink.net/~bacdoc/sgvcs.htm* A Southern California branch of the California Chiropractic Association, with information and email addresses of the members. [Exp. #168.]

Sapient Health Network (SHN) *http://www.shn.net* An interactive health information service developed for people with chronic and serious illnesses. [Exp. #168.]

SF Goodwill *http://www.sfgoodwill.org* Featuring its new 1977 award-winning advertising and public service announcement campaign. [Exp. #170.]

Software Forum *http://www.softwareforum.org* Building success for professionals. [Exp. #168.]

South Bay Apple Macintosh User Group *http://www.sbamug.org* Mac stuff and more. [Exp. #169.]

United Jewish Appeal *http://www.uja.org* Promoting the UJA Federation Annual Campaign and other national activities including: University programs, National Women's Campaign, and its Mission to Israel. [Exp. #169.]

Web Pages For Charities, Non-profits *http://www.rth.org/* Photos of La Brea Tarpits, LA Natural History Museum, Cabrillo Marine Aquarium and more. [Exp. #170.]

Webguardian Internet Watchdog Web Site *http://www.webguardian.com* Non-profit Internet watchdog group to assist the cyberconsumer with transaction problems or any Internet-related consumer matter. [Exp. #170.]

ODDS & ENDS

Advanced Kinesiology Concepts *http://www.geocities.com/hotsprings/7756/* Innovative approaches to holistic health using advanced kinesiology, radionics, and huna. [Exp. #170.]

AirCal *http://members.aol.com/aircal737/aircal.htm* A great place for ex-AirCalifornians to get together. Reunion photos too! [Exp. #169.]

Ask The Master Plumber *http://www.clickit.com/bizwiz/homepage/plumber.htm* [Exp. #170.]

Assyrian Information Medium Exchange *http://www.edessa.com* Information relating to the contemporary Assyrian Christians around the world. [Exp. #169.]

Atlin Art Centre *http://www.atlinart.com* Art courses and wilderness adventures. [Exp. #169.]

Auto Pricing *http://www.autopricing.com* Providing dealer invoice and actual market pricing values on new 1998 to 1985 vehicles. [Exp. #170.]

Awareness Holistic Books & Information Center *http://www.netwizards.net/~awareness* A meeting place for creative evolution of body, mind, and spirit in San Mateo. [Exp. #168.]

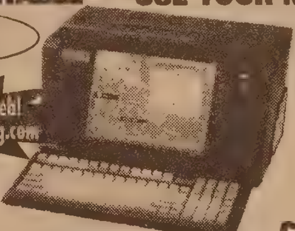
B737 Club *http://home.worldonline.nl/~pvheyst* Information about B737 destinations for KLM cockpit- and cabin-crew. Also information about the EF2000 simulation. [Exp. #168.]

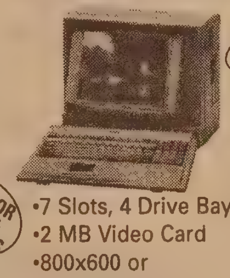
Belgian Dental Site *http://www.belgiandentalsite.com* This is the first Belgian dental site for dentists, dental labs and patients. [Exp. #168.]

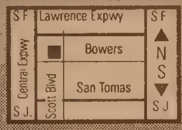
Bruce Olsson *http://www.bruceolson.com* Colombia's Matilone Bari Indian community. [Exp. #170.]

Child-Teen Mental Illness Research *http://www.swiftsite.com/child-research* Parents who have children/teens with neuropsychiatric, neurodevelopmental, learning, or severe social-behavioral problems are invited to participate in research sponsored by the University of Illinois at Urbana-Champaign. [Exp. #169.]

ChinaVista *http://www.chinavista.com* Features in-depth informatoin on China business, industry, travel, and cluture. Contents are available in both English and Chinese. [Exp. #170.]







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Web Page Listings *continued...*

Country Clubs Lifestyle Mall *http://www.countryclubs.com* Whether it's golf clubs, town clubs, country clubs, polo clubs, shopping or investments we have it all. [Exp. #170.]

Dispute Resolution Specialists Home Page *http://www.mediates.com* Mediation and alternative dispute resolution services provider. [Exp. #169.]

Dr. Sara Feldman-Schorrig's Sexual Harassment Page *http://www2.netcom.com/~schorrig/psych.html* Calls attention to need for objectivity in sexual harassment cases. [Exp. #169.]

Hair Loss Treatment That Works *http://www.hairsite.com* World's largest Web site for hair loss info and reviews. [Exp. #169.]

Healing Touch Ministries *http://healingtouch.com* Spiritual guidance for the gay community. [Exp. #169.]

Health By Choice *http://www.healthbychoice.com* Health care advisory. [Exp. #170.]

Healthcare Forums *http://www.healthcareforums.com* Web-based community allows global interaction among doctors, nurses, allied health professionals, and industry vendors. [Exp. #168.]

Jesus Christ, The Son Of God *http://www.jesusmessiah.com* The shocking truth about Jesus Christ. What most churches are not telling you. [Exp. #170.]

ManilaNet.com *http://www.manilanet.com* Asia's first 24-hour email-a-prayer ministry, counseling, and public service Web site. [Exp. #169.]

Manuel Otero Inmobiliaria Vende *http://webs.satlink.com/usuarios/o/otero* Business Inmobiliarios. Nos especializamos en residencias, countries, bodegas, vides, urbanizaciones e industrias. Asesoramiento en ley de inversiones para Argentina. [Exp. #170.]

Movo Media *http://www.movo.com* Meet local singles. Try it free, use code 850. [Exp. #169.]

New Ways *http://www.icafe.com/nways/hazward* [Exp. #168.]

Nightscaping *http://www.nightscaping.com* One hundred pages about 12v outdoor lighting. [Exp. #169.]

Plastic Surgery Interactive Resource Page *http://users.aol.com/jdisaia* Free information for those contemplating cosmetic surgery and "To Answer Your Questions." [Exp. #169.]

Positive Health Clinic *http://www.indiawatch.org.in/positivehealthclinic* Homeopathic Cyber Clinic with online consultation. [Exp. #169.]

Remarkable Medicinal Herbs for All *http://www.webexpert.net/takao/index.html* All natural products for preventive and therapeutic features. [Exp. #169.]

Romance Club Online *http://www.romanceclub.com* The ultimate place to meet fine quality and attractive singles. [Exp. #168.]

Scuba Sandwich *http://www.choicemall.com/scuba sandwich* All the ingredients for great scuba diving between two slices of bread. [Exp. #169.]

Sunshine International Penpals *http://sunshine-girls.com/* Asian women desire romance, marriage. World's largest correspondence service since 1984. Free photobrochure. [Exp. #169.]

The Lunitic Legion *http://www.concentric.net/~tmnt/* A group of hackers and Phreaks. [Exp. #168.]

Threshold Of The Twelve Galaxies *http://members.tripod.com/~heReTiK/* A place of peace, faith, and commitment. OS/2 is not dead. [Exp. #169.]

Tu An Zen Temple *http://vinet.vinet.com/~tuanthienduong/* Zen meditation, in English, Vietnamese, and Chinese. [Exp. #170.]

Unlocking The Secret Of Life *http://www.wgn.net/~dicewars/* The solution to our origin and immortality—relative to the universe. [Exp. #170.]

Washington Economics Intelligence Brief *http://www.weg.com* An incisive weekly accessment of US economic developments and Washington policy for corporate decision makers and investors. [Exp. #168.]

Women's Journals *http://www.slaydesign.com/wjomensjournals/* Read installment journals and view scanned pages from personal paper journals. Read women's private thoughts. [Exp. #169.]

Yoga & Menopause *http://www.HotflashYoga.com* Philosophy of Nevine Michaan and Katonah Yoga, designed to relieve symptoms of menopause, as seen on CBS TV, in English and Spanish. [Exp. #168.]

Your Free Clairvoyance *http://www.sara-freder.com/index_an.html* Whatever the problem might be that is ruining your life, you have absolutely nothing to pay neither before nor after your free clairvoyance consultation. [Exp. #168.]

GOVERNMENT/ POLITICS

Child Support Reform Network *http://www.csrn.com* Devoted to changing a badly broken child support system so it is fair to everybody. [Exp. #170.]

Corporate Watch *http://www.corpwatch.org* As all the Fortune 500 companies jump onto the World Wide Web bandwagon, who's keeping an eye on them? Corporate Watch is! [Exp. #170.]

First Amendment Center *http://www.fac.org* Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; of the right of the people peaceably to assemble, and to petition the government for a redress of grievances. [Exp. #170.]

Ken's Communist Comics *http://www.geocities.com/Area51/2369/kcc.html* The only communist comics shop in California. Our prices are Marxerific and the service is Maovelous! [Exp. #169.]

Library Of Congress Information Bulletin *http://www.www.loc.gov/loc/lcib* [Exp. #169.]

Milpitas Community Web Site *http://milpitas.miningco.com* The one site where Milpitans can find everything about Milpitas and Silicon Valley, CA. [Exp. #170.]

Political Ecology Group *http://www.igc.org/peg* PEG is a multi-racial, volunteer-based organization working for environmental justice in the SF Bay Area. [Exp. #170.]

San Mateo County Sheriff's Office *http://www.smcsheriff.com* Employment opportunities and services available from the San Mateo County Sheriff's office. [Exp. #170.]

Threatened Plams Of Moapa Nevada *http://www.angelfire.com/nv/DesertFanPalms/index.html* A report on threatened native Nevada desert palm trees, Moapa Indian pleas, a petition, and pictures. [Exp. #170.]

US Consumer Information *http://www.pueblo.gsa.gov* Find the latest information from more than forty US government agencies. [Exp. #170.]

ARTS

An American Photographer In Southern Spain *http://www.angelfire.com/ca/fotografo* Soon local area photos, events, and my photos. [Exp. #170.]

CENTURYMAGE: The Memory Of The XX Century *http://www.centurymage.com* Final count down from the April 6th 1997, D-1000 to the 21st century offering artistic and unique photographies, dated and certificated by lawyers. [Exp. #169.]

Dale Erickson Photography *http://www.dephoto.com* Colorful scenic, travel, wildlife, and floral photography from throughout the USA. Stock photography and print sales. [Exp. #170.]

Dick Swanson Photography—An American Odyssey *http://www.swansonphotography.com* Dick Swanson is a photojournalist with more than 35 years experience covering editorial photo assignments for *Time, Life, and National Geographic.* Specializing in people and their culture. [Exp. #169.]

Eagle Wing Indian Art—Trading Post *http://www.eaglewingart.com/trading_post/tradingpost.htm* The Trading Post is a service for Indian art collectors/owners to list items they wish to sell on the Internet. [Exp. #170.]

Images Of The Sea *http://www.mwestermeier.com* Underwater photography exhibit featuring digital images by Mark Westermeier. [Exp. #170.]

Ledbetter Lusk Gallery *http://www.llg.com* The primary focus of Ledbetter Lusk Gallery is the representation of and commitment to artists working in our region and the greater Southeastern United States. [Exp. #170.]

Mansoor Amarna Collection *http://www.amarna.com* A collection of ancient Egyptian limestone carvings, some of which have been exhibited in museums around the world. [Exp. #169.]

Paradigm Group *http://www.paradigm-arts-group.com* A showcase of artworks by a select group of established and emerging artists. [Exp. #169.]

Photos By Lucia *http://home.earthlink.net/~Lucia/* Need a great photographer at reasonable prices? Check out the site of L.A. lenswoman Lucia. [Exp. #169.]

Touches The Heart Art *http://members.aol.com/TchHrt/weber2.htm* Poster prints of petroglyphic art. Visa, MC, AmEx [Exp. #170.]

Verlangieri Art *http://www.thebook.com/verlangieri* Art, antiques, and photography gallery. [Exp. #170.]

Vigovisiones *http://zonezero.com* Since 1986, a biennial event where invited artists photograph Vigo, a port city in the Spanish region of Galicia overlooking the Cantabric sea. [Exp. #170.]

Virtual Colony *http://www.virtualcolony.com* A place in cyberspace for artists, poets, and musicians. [Exp. #169.]

ENTERTAINMENT/ LEISURE

Action Review With Icestorm *http://www.slip.net/~icestorm/* For the coolest movie reviews, previews, and cinematic essays turn to this award-winning Web site! [Exp. #169.]

Astrology By Moonlight *http://www.masterm.com/astrol.html* Weekly astrology listings by sign. Multiple links. [Exp. #168.]

ATP Tour *http://www.atptour.com* Providing information on the ATP Tennis Tour across North America this summer. [Exp. #169.]

BayNar Model Rocket Club *http://members.aol.com/ddavis6747/rockets/baynar.htm* Model rocketry, NAR affiliated, family-oriented fun for all ages. Model rocket launches every Sunday. [Exp. #168.]

Best Deals In Las Vegas *http://www.geocities.com/WallStreet/8580* Free info on best deals on airfare, hotel, dining, shows plus gambling strategies! [Exp. #168.]

BPM Music Productions *http://www.harb.net/BPMMUSICPRODUCTIONS* Professionally mixed aerobic soundtracks for today's instructor. [Exp. #169.]

Canon's World of Sport *http://sport.europe.canon.com* The pleasure of sport with special events, games, prizes, chat and much more. [Exp. #169.]

Cheese And Stuff *http://www.geocities.com/MadisonAvenue/1391* A very funny site. You'll kick yourself if you don't visit it. [Exp. #170.]

Club eXO *http://www.clubexo.com* New York City supper club and discotheque. [Exp. #168.]

College Football Picks *http://www.masterm.com/cfpicks.html* Fourteen weekly college picks, Vegas lines, point spreads. [Exp. #169.]

continued on page 238

HSC Electronic Supply

Serving Silicon Valley since 1964!

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For thirty years we have been your source for Silicon Valley exotica!

486 Motherboard

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- "Baby AT" size 8.5" x 13", six 16-bit slots, two 8-bit slots
- Uses 33MHz 486 CPU (not included)
- Eight 30-pin SIMM sockets, AMI BIOS
- 64K Cache installed (can be upgraded to 256K)
- New in box - 90 day HSC warranty

HSC#16827 **$24.95**

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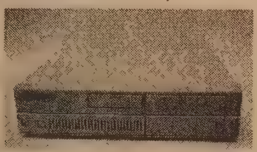
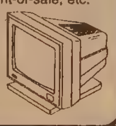
- Grid Systems "Sabre" 486-system box, used
- 486SX-25 CPU (upgradable to DX2-66)
- 4MB DRAM included, 1MB SVGA port on-board
- One 72-pin and eight 30-pin SIMM sockets available
- Four ISA slots open, two 3.5" & two 5.25" drive bays
- IDE, Serial, Parallel ports on board
- Optional Enhanced IDE Controller available, $5.00 extra
- Phoenix Flash BIOS
- High-quality case & overall design
- Plug in your drives and go!
- 90-day HSC warranty
- Upgrade to a DX-33 CPU for only $5.00 more!



HSC#16850 **$99.00**

Small Mono-VGA Monitor

- 9" diagonal measure paper-white phosphor VGA monitor
- Used briefly then removed from service -- Like new!
- Perfect for traveling presentations, point-of-sale, etc.
- SVGA, VGA compatibility, 45MHz
- Only 9.25" x 9.75" x 9.125" high
- Non-Glare screen, swivel base
- 30-day HSC warranty



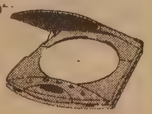
HSC#16823 **$99.00**

Absolute Last of the Red Hot Reno!

- Now at clearance price -- Media Vision *Reno*:
  - Consists of new external Reno CD/ROM drive,docking bay with SCSI2 port, AC Adapter, cable kit, travel pouch, headphones
  - Late Model version Uses AC adaptor (included) or AA alkaline batteries (not included)
  - Double-speed 180mS drive is lightning fast!
  - Drive detaches from docking bay, use with headphones as a portable personal audio CD player
  - Great for Mac or IBM (adaptor bracket included)
  - Mac software included
  - SCSI Controller & software required for IBM use
  - Brand new, 90-day warran

A.

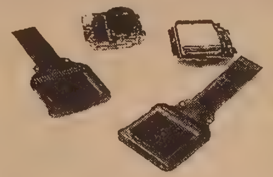
Now - $59.00



Available Separately:
A. Macintosh Powerbook SCSI Adapter (HDI-30 to 25-pin D connector) **HSC#15704** **$12.50** if purchased alone, or with purchase of Reno Kit,**$5.00**

Ultimate Video Hack!

- Only the brave need apply, but what a great gizmo!
- Tiny, postage-stamp sized LCD screens -- in color!
- Fluorescent backlight runs on 5VDC
- Color LCD active area is 14.6mm x 11.2mm
- Overall size of board is 15/16" square!
- Backlight board is 1" square, including tube, inverter
- Resolution is 505 x 230 pixels, RGB delta pattern
- Originally made by Matsushita for virtual reality goggles
- One LCD and one backlight board is $9.95/set
- Buy two sets for only $17.50!
- Includes data sheet with pinouts, specs
- Surface mount conn. for LCD ribbon cable available, $1



HSC# 16536 Tiny LCD/Backlight set **$9.95 ea.**

Sound Card with SCSI

- Mediavision **ProSonic 16** sound card / SCSI controller
- 16-bit audio, 44.1KHz stereo sound
- MPU 401 MIDI emulation, Soundblaster compatible
- Internal SCSI CD-ROM port, microphone jack (mike not included), line-in, speaker jack, joystick port
- Includes driver disk, installation information
- OEM package, 90-day warranty

HSC#16683 **$29.95**

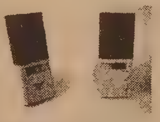
Super Sounding Speakers!

Tired of the cheesy sound coming from those give-away speakers in your multimedia kit? Try upgrading to these sonic wonders...you'll have to hear them to appreciate the difference these will make without blowing your budget!

GNT2500 2-way Bass-Reflex speakers

- 3.5" woofer, 1" piezo tweeter
- 15W built-in amplifiers, 80W peak, 5.4W RMS
- 40 - 20,000 Hz, built-in SRS 3-D stereo
- Measure approx. 3.75" x 6.125" x 9.25" tall
- AC adaptor, audio cables included
- On-off switch, 3-D switch, tone & volume controls
- Attractive off-white finish with grey grille-cloth

HSC#16670 **$29.95**



GNT3500 3-way Bass-Reflex speakers

- 4" woofer, 2" midrange, 1" piezo tweeter
- 23W built-in amplifiers, 120W peak, 20W RMS
- 20 - 20,000 Hz, built-in SRS 3-D stereo
- Measure approx. 6.25" x 6.5" x 9.75" tall
- AC adaptor, audio cables included
- On-off switch, 3-D switch, bass, treble & volume controls
- Attractive off-white finish with grey grille-cloth

HSC#16671 **$39.95**

PCI Video Accelerator Cards from Media Vision!

Just in...blazing fast and screaming fast "ProAxcel" VGA accelerators from Media Vision! Both support MPEG, AVI, and other full-motion video formats. Check out the review on the Web at http://goinside.com/97/4/pro.html --Both cards are new in box and have a 90-day HSC Warranty

MEDIA VISION PROAxcel

- Blazing fast 64-bit graphic & video card
- PCI Bus card with 1MB RAM, expandable to 2MB
- Uses proprietary chipset (Alliance Semi ProMotion 6410)
- Resolutions up to 800 x 600, 64K colors with 1MB
- Up to 1600 x 1200, 256 colors, 800 x 600, 16M colors (requires 2MB) -- Upgrade chipset available, $7.50
- 30 fps full-screen video playback possible (90MHz Pentium)
- Win95, NT & 3.1 drivers and full manual on CD-ROM
- If you can not read CD's, diskettes are available, $2 extra

HSC#16807 **$29.95**

MEDIA VISION PROAxcel 128

- Screaming fast 128-bit graphic & video card!
- PCI Bus card with 2MB RAM, expandable to 4MB
- Uses Tseng Labs ET6000 chipset, MDRAM technology for incredible 128-bit data path at 75 Hz refresh
- Resolutions up to 1024 x 768, 64K colors with 2MB
- Resolutions up to 1280 x 1024, 16M colors (with 4MB)
- Integrated 135MHz VGA compatible 24-bit DAC
- 30 fps full-screen video playback possible (90MHz Pentium)
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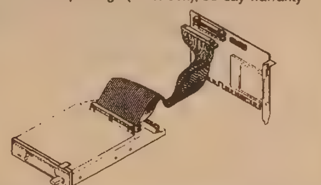

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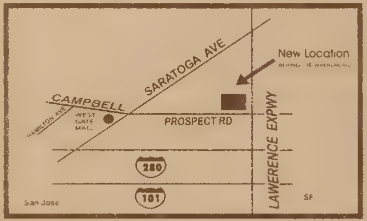

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20" Sony 300SF 1280X1024 .30	$1588
20" Sony 20SF-2T	$1798

HARD DISKS

Western Digital AC34000 4GB Ide	$298
Quantum QM 33200 Ultra SCSI 3.2GB 10.5MS	$298
Seagate ST-1917W 9.0GB Ultra Wide SCSI 8MS	$1398
Quantum 36480 ST-A 6.4GB Ide Ultra DMA	$488

CD-ROM DRIVES

Toshiba 16X SCSI	$178
Panasonic 24X IDE	$89

SOUND CARDs & SPEAKERS

YAMAHA OPL3-SA Sound Card	$18
TeleVideo-TeleWave Q32 WAVETABLE Synthesize S/Card	$38
Sound Blaster AWE 64 Value P&P (Retail Box)	$99
Sound Blaster AWE 64 Gold (Retail Box)	$178
Sound Blaster AWE 64 GOLD (OEM)	$158
Sound Blaster AWE 32 (OEM)	$59
Super Power 180W Multimedia Speakers	$28
Super Power 240W Multimedia Subwofer Speakers System	$68

MODEMS

Zoltrix 33.6 w/ Voice (Req. WIN'95 & Pentium)	$48
Supra 56K Technology w/ Voice Int.	$99
Sporter Modem 56K Int (Retail Box)	$168
Sporter Modem 56K Ext (Retail Box)	$188
Sporter Modem 56K w/ Voice Int (Retail Box)	$188
Sporter Modem 56K w/ Voice Ext (Retail Box)	$198
Spoter 56K w/ Voice Int (OEM)	$168

CASE & POWER SUPPLY

PREMIER MINI TOWER + 230W	$26
PREMIER COMPACT MEDIUM TOWER + 230W	$36
MID ATX w/250W	$69
FULL ATX w/250W	$89

BACKUP POWER

American Power Conversion(Ups)

Back-up 400VA / 600VA	$148 / 238
Back-up 900VA / 1200VA	$348 / 458
Smart-ups 400VA / 750VA	$338 / 358
Smart-ups 900VA / 1200VA	$458 / 618

PRINTERS

EPSON STYLUS COLOR 600	$299.00
EPSON STYLUS COLOR 400	$238.00
EPSON STYLUS COLOR 800	$428 00
CANON BJC-4200	$278 88
CANON BJC-240e	$168 00
CANON BJC-4550	$498 88
HP DESK JET COLOR 680C	$278 88
HP DESKJET COLOR 692C	$298 88
HP LASERJET 5L / FS	$398.88
HP DESKJET 820 CXI / 870CXI	$388.88 / 498.88

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JAZZ Drive 1GB SCSI Internal/External	$368 / 468
HP Colorado T1000 (Up to 800mb data Compression)	$128
HP Colorado T3000 (Up to 3.2GB data compression)	$198
HP C1534 4MM 2-4GB SCSI INT.	$598
HP C1536 4MM 4-8GB SCSI INT.	$669

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SYSTEM BOARD+CPU+COOLING FAN+CASE

Intel Venus Pentium Pro Systemboard
* Intel Pentium Pro w/256 Cache w/cooling fan* ATX CASE w/ 250W Power Supply* Pentium Pro 180/200CPU....**$668 / 778**

Intel Marl Pentium Systemboard
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Pentium Processor MMX 166 / MMX 200.............$468 / 588

Infinity-2000 Systemboard Intel 430VX PCI Set*
Intel Pentium Processor w/ Cooling fan 512K Cache*
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Pentium Processor MMX 166 / MMX 200.............$398 / 528

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Product Spotlight

Updates

Anawave Software has released **Anawave WebSnake 1.2**. Anawave Software Inc., 1-800-711-6030, or URL: *http://www.anawave.com* .

Greystone Peripherals, Inc., has introduced its **CardDock GS-320 Desktop PCMCIA Internal Reader/Writer**. $139. Greystone Peripherals, Inc., 130 Knowles Dr., Los Gatos, CA 95030. (408)866-4739, or URL: *http://www.grystone.com* .

Mercury Interactive Corp. has announced **TestSuite 2000**. Mercury Interactive Corp., 470 Potrero Ave., Sunnyvale, CA 94086. (408)523-9900, or URL: *http://www.shira.com* .

PC Guardian has developed the **Notebook Guardian 1029**, a locking system for notebook computers. $59.95. PC Guardian, 1133 Francisco Blvd., Ste. D, San Rafael, CA 94901-5427. 1-800-288-8126, or URL: *http://www.pcguardian.com* .

Proxim, Inc., has introduced **RangeLAN2 Manager**. Proxim, Inc., 295 North Bernardo Ave., Mountain View, CA 94043. (415)960-1630, or URL: *http://www.proxim.com* .

QUALCOMM Inc. has released their **Eudora Productivity Toolkit**. $89.00. QUALCOMM, Inc., 10555 Sorrento Valley Rd., San Diego, CA 92121. 1-800-2-EUDORA or URL: *http://www.qualcomm.com* .

Shira Computers Ltd. has made available **CEPStoPS v2.5**. Shira Computers Ltd., 1600 Wilson Blvd., Ste. 710, Arlington, VA 22209. (703)527-6630, or URL: *http://www.shira.com* .

Sony Electronics has unveiled the **CPJ-D500 LCD Data Projector**. $1999. Sony Electronics, 3300 Zanker Rd., San Jose, CA 95134. 1-800-352-7669, or URL: *http://www.sony.com/technology* .

Sophos Inc. has announced "lights out" virus protection with their **Anti-Virus for Windows NT**. Sophos Inc., 18 Commerce Way, Woburn, MA 01801. (617)932-0222, or URL: *http://www.sophos.com* .

Wards Creek Software Inc. has released **GameWarden**. $199 for a five-user license, demo available at their Web site. Wards Creek Software Inc., 8772 Quarters Lake Rd., Baton Rouge, LA 70809-7305. 1-888-366-8807, or URL: *http://www.gamewarden.com* .

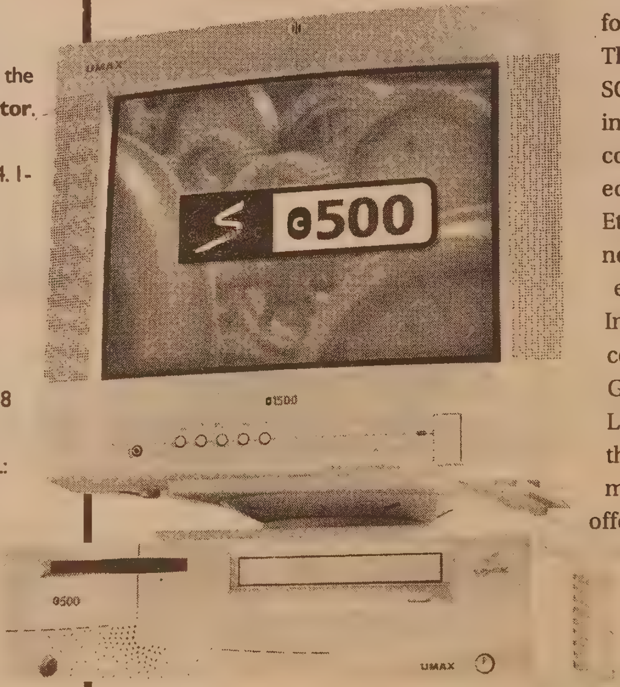
Westing Software, Inc. has announced **Responsive Time Logger v3**. Westing Software, Inc., 134 Redwood Ave., Corte Madera, CA 94925. 1-800-325-1862, or URL: *http://www.westinginc.com* .

Product Announcements

Macintosh Hardware

SuperMac C500 and C600 Series

UMAX Computer Corp. has added four new MacOS-compatible entry-level computers to their SuperMac C500 and C600 computer families. Based on powerful user-upgradeable 603e PowerPC microprocessors, these machines were designed to meet the needs of specific user groups. The introductory C500LT family is designed for budget-minded users, providing maximum MacOS performance for less than $1,000. The C500LT/180 is meant for SOHO environments requiring high performance and low cost. The C500e/180 is equipped with built-in Ethernet for high-speed business computing in workgroup environments. For the Internet user, the C500i/180 is configured with a 33.6Kbps Global Village fax modem. Lastly, UMAX has introduced the C600e/200, a high-performance business machine, offering a 10BaseT Ethernet adapter, an internal Zip drive, and higher throughput for fast and efficient workgroup computing. The machines also have built-in SRS stereo surround-sound, CD-ROM drives and support for up to 144MB of RAM. UMAX Computer Corp., 47470 Seabridge Dr., Fremont, CA 94538. (510)226-6886, *products@supermac.com* , or URL: *http://www.supermac.com* .



Macintosh Software

EchoSearch 1.08

Iconovex Corp., makers of the desktop-based professional research tool EchoSearch, have introduced a Macintosh version, EchoSearch 1.08, which promises to improve the efficiency and accuracy of

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Authorized Distributor

P6KDI/S-233~300+,Dual P-II,5xPCI/3xISA/Raid,**2940UW**/2xUIDE/IO,4xDim,USB,ATX	$ 465
P6KDI-233~300+,Dual P-II,5xPCI/3xISA/Raid,**2xUltra**/IDE/IO,4xDim,USB,ATX,AMI	$ 329
P6KPI/S-233~300+,P-II,4xPCI/4xISA/Raid,**2940UW**/2xUltra/IDE/IO,4x72/2xDimm,ATX	$ 349
P6KPI-233~300+,4xPCI/4xISA,2xUltra/IDE/IO,2S/1P,4x72/2xDimm(5V),AMI,USB,ATX	$ 235
P6NDP-150~200Mhz,Dual/Pro,Natoma,4xPCI/4xEISA/Raid,**2940UW SCSI/IO**,2S/1P,AMI	$ 645
P6NDI-150~200Mhz,Dual Pro,Natoma,5xPCI/3xISA,IDE/IO,4x72-pin,2xDimm,AMI,ATX	$ 279
P6NPI/S-150~200Mhz,P-Pro,Natoma,4xPCI/Raid/4xISA,**2940UW** SCSI,2xIDE/IO,ATX	$ 275
P6NPI-150~200Mhz, P-Pro,Natoma,4xPCI/4xISA,2xIDE/IO,2S/1P,4x72-pin, USB,ATX	$ 175
P54TXI/S-200MMX/K5/K6,TritonTX,512K,4xPCI/3xISA,**2940UW**/UIDE/IO,2S/1P,ATX	$ 255
P54TXI-75~200MMX/K5/K6,Triton TX,512K,4xPCI/4xISA,2xIDE/IO,2S/1P,4x72,AMI,ATX.	$ 135
P54TPV-75~200MMX,TritonVX,512K,4xPCI/4xISA,2xIDE/IO,2S/1P,4x72-pin/Dimm,AT	$ 98
Adaptec RAID ARO-1130,PCI-to-SCSI MultiChannel Array Adapters (Raid 0,1,5),w/Kit	$ 239

SUPERMICRO (Made In U.S.A)

P6DKF-233~300+Mhz,Dual P-II,440FX,5xPCI/4xISA,2xIDE/IO,2S/1P,AMI,USB,Full AT	$ 349
P6SKS-233~300+Mhz,P-II,440FX,4xPCI/4xISA,**2940UW**/2xIDE/IO,2S/1P,USB,Full ATX	$ 325
P6SKEII-233~300+Mhz,P-II,440FX,4xPCI/4xISA,2xIDE/IO,2S/1P,USB,6x72-pin,Full ATX	$ 229
P6SNEII-233~300+Mhz,P-II,44xFX,5xPCI/4xISA,2xISA/IO,2S/1P,6x72-pin,AMI,Baby AT	$ 225
P6DNH-150~200Mhz,Dual/Pro,Natoma,8xPCI/3xISA,2xIDE/IO,2S/1P,8x72-pin,Full AT	$ 619
P6DNF-150~200Mhz,Dual/Pro,Natoma,4xPCI/4xISA,2xIDE/IO,2S/1P,8x72-pin,Full AT	$ 339
P6DNE-150~200Mhz,Pent/Pro,Natoma,4xPCI/4xISA,2xIDE/IO,2S/1P,6x72-pin,baby AT	$ 298
P6SNS-150~200Mhz,Pro,Natoma,4xPCI/3xISA,2940UW/SCSI,2xIDE/IO,2S/1P,baby AT	$ 295
P6SNE-150~200Mhz,Pent/Pro,Natoma,5xPCI/4xISA,2xIDE/IO,2S/1P,6x72-pin,AMI,AT	$ 235
P5MMS98-75~200MMX/K5/K6,430TX,4xPCI/4xISA,2xIDE/IO,2S/1P,4x72-in/2xDimm,AT	$ 159
P5MMA98-75~233MMX,/K5/K6,430TX,4xPCI/4xISA,2xIDE/IO,4x72-pin/2xDimm,ATX	$ 169
5MMS-75~200MMX/K5/K6,430TX,4xPCI/4xISA,2xIDE/IO,2S/1P,4x72-in/2xDimm,AT	$ 149
P55STE-75~200MMX,TritonII,512K,4xPCI/4xISA,IDE/IO,2S/1P,6x72-pin,USB,baby AT	$ 145

S-1682D-233~300Mhz,Dual P-II,440FX,5xPCI/3xISA,2xIDE/IO,2S/1P,8x72pin,ATX,AMI	$ 345
S-1680S-233~300Mhz,Pentium-II,440FX,5xPCI/4xISA,2xIDE/IO,2S/1P,8x72,AMI,AT	$ 265
S-1662D-150~200Mhz,Dual/Pro,Natoma,5xPCI/3xISA,2xIDE/IO,2S/1P,8x72,AT	$ 309
S-1662S-150~200Mhz,Single Pro,Natoma,5xPCI/3xISA,2xIDE/IO,2S/1P,8x72,AT	$ 235
S-1564D-75~200MMX,Dual/P,TritonII,512K,4xPCI/5xISA,2xIDE/IO,2S/1P,8x72,AT	$ 198
S-1564S-75~200MMX,Single/P,TritonII,512K,4xPCI/5xISA,2xIDE/IO,2S/1P,8x72,AT	$ 159
S-1570S-75~200MMX/K5/K6,430TX,512K,5xPCI/4xISA,IDE/IO,2xDim/8x72,AT,Award	$ 149
S-1471-75~200MMX,TritonVX,512K Syn.5xPCI/4xISA,2xIDE/IO,2S/1P,2xDimm/4x722,AT.	$ 139

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MICRONICS

Fortress-233~300,Dual PII,44FX,4xPCI/2xISA,IDE/IO,2S/1P,4xDimm,Phoenix,ATX	$ 419
Stingray-233~300,P-II,440FX,4xPCI4xISA,IDE/IO,2S/1P,4x72/2x168,ATX	$ 319
M6Me-150~200Mhz,Natoma,3xPCI/6xEISA,**2940UW SCSI**,2xIDE/IO,2S/1P	$ 649
W6-LI-Dual Pro,440FX,4xPCI/2xISA,2xIDE/IO,**2940UW/SB16**,4xDim,ATX	$ 495
M6Mi/S-150~200Mhz,Natoma,4xPCI/3xISA,2xIDE/IO,2S/1P,SB16,ATX	$ 315
Invader-150~200Mhz,Natoma,4xPCI/4xISA,IDE/IO,2S/1P,4x168-pin,ATX	$ 295
M7S-Hi-90~233MMX,430HX,512K,4xPCI/3xISA,2xIDE/IO,2S/1P,4x72,ATX	$ 198
Twister-200MMX/K6,430TX,512k,5xPCI/4xISA,IDE/IO,2S/1P,4x72/Dim,AT	$ 169
Thunderbolt-200MMX/K6,TX,512k,4xPCI/4xISA,IDE/IO,2S/1P,2x168,ATX	$ 239

intel (Made By Intel)

Portland-P-II,440FX,3xPCI/3xISA,2xIDE/IO,Yamaha Audio,USB,4x72-pin,ATX	$ 265
Providence-Dual/Pro,440FX,4xPCI/1xISA,**2940UW** SCSI/IDE/IO,SB,EtherPro/100	$ 545
Venus-Pentium/Pro-150~200Mhz,Natoma,4xPCI/3xISA,2xIDE/IO,2S/1P,4x72,ATX	$ 159
Anchorage-75~200MMX/K6,430TX,512K,Yamaha Sound,3D Video,IDE/IO,ATX	$ 259
Tucson-75~200MMX,430HX,512K,4xPCI/3xISA,IDE/IO,2S/1P,SB/Pro,ATX	$ 185

American Megatrends (A.M.I made in U.S.A)

MegaPro-150~200Mhz,Dual/Pro,440FX,4xPCI/4xISA,IDE/IO,8x72,USB,Full ATX	$ 729
Merlin/DP-150~200Mhz,Dual/Pro,440FX,4xPCI/3xISA,IDE/IO,USB,4x72,baby AT	$ 498
Merlin/Pro-150~200Mhz,Natoma,4xPCI/4xISA,IDE/IO,2S/1P,USB,4x72,baby AT	$ 445
TITAN III-90~200Mhz, Dual/P,TritonII,512K,6xPCI/4xEISA,2xIDE/IO,2S/1P,AT	$ 319
ATLAS PCI-III-75~200MMX,SIS,512K,4xPCI/4xISA,2xIDE/IO,2S/1P,4x72,baby AT	$ 309
Apollo III-75~200MMX,Triton HX,512K,4xPCI/3xISA,2xIDE/IO,2S/1P,4x72,AT	$ 215

KN97-X-233~300Mhz,P-II,440FX,5xPCI/3xISA,2xIDE/IO,USB,4x72-pin/1xDimm	$ 279
P/I-XP65UP5-150~200Mhz,Dual/Pro,Natoma,6xPCI/3xISA,IDE/IO,8x72-pin,AT	$ 457
P/I-XP6NP5-150~200Mhz,P-Pro.Natoma,5xPCI/3xISA,IDE/IO,2S/1P,4x72,AT/ATX	$ 229
P/E-P55T2P4S-75~200Mhz,TritonII,512k,4xPCI/3xISA,**2940UW** SCSI,IDE/IO,2S/1P	$ 269
P5TX97-E-200MMX/K5/K6,TritonTX,512k,4xPCI/3xISA,IDE/IO,2S/1P,4x72/2xDim.	$ 169
P5VX97-75~200MMX Mhz,TritonVX,4xPCI/4xISA,512k,2xIDE/IO,2S/1P,4x72-pin	$ 109

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RP-II-2333~300Mhz,P-II,440FX,4xPCI/4xISA,2xIDE/IO,2S/1P,6x72-pin,ATX	$ 229
R557-75~200MMX/K6,Intel TX,512k,4xPCI/4xISA,2xIDE/IO,USB,4x72/2xDimm	$ 149
R534-75~200+/MMX,SIS,512k,3xPCI/5xISA,2xIDE/IO,USB,2xSdram,Award,AT	$ 139

BIOSTAR

MB-8600TFX-233~300+,Natoma,4xPCI/3xISA,2xIDE/IO,2S/1P,4x72/1xDimm,ATX	$ 219
MB-8500TTD-75~200MMX/K6,TritonTX,512K,4xPCI/3xISA,IDE/IO,2S/1P,2xDimm	$ 119
MB-8500TVG-75~200MMX,TritonVX,512K,3xPCI/4xISA,IDE/IO,2S/1P,4x72/2xDim	$ 97

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DUAL P-133/150	***$1849/$1879***
DUAL P-166/200	***$1939/$2089***
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DUAL P-133/150	***$1649/$1689***
DUAL P-166/200	***$1769/$1919***

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DUAL P6-166/180	***$3159/$3299***
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intel AMD Cyrix

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ntel P-150/166/200	$119/$165/$235
Intel P-100/120/133	$98/$105/$119
Cyrix6x86-166+/200+	$79/$98
AMD K6P-166/200/233	$169/$229/$329
AMD5K86-100/133/166	$69/$85/$109
4/8/16MB/60ns/EDO	$19/$39/$67
32/64/128MB/60ns/EDO	$125/$429/Call
168pin Dimm-8/16/32MB	$49/$98/$198
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Monster 3D 4MB EDO	$165
Stealth 3D Virge 2/4MB VM	$125/$159
Stealth 3D Virge 2/4MB EDO	$79/$98
Stealth 64 Video 2/4MB VM	$119/$149
Stealth 64 Video 1/2MB EDO	$39/$59
Matrox Millennium II 2/4MB	$149/$195
Matrox Mystique 2/4MB	$105/$129
#9 Motion 771 2/4MB Vram	$179/$229
#9 Imagine128 4MB V/S2	$398/$559

CD-ROM DRIVES

Toshiba 3801B,99ms,16X,SCSI/Int	$179
Toshiba 6102,99ms,24x,IDE/Int	$115
Toshiba 6002B,110ms,16X,IDE/Int	$89
Toshiba 5701B,115ms,12X,SCSI/Int	$135
Teac CD-516S,99ms,16X,SCSI/Int	$149
Teac CD-516E,110ms,16X,IDE/Int	$87
Sony 524E,99ms,24X,IDE/Int	$117
Panasonic,99ms,24X,IDE/Int	$113
NEC 1610,16X,115ms,SCSI, Int	$155
Plextor-12TSI,115ms,12X,SCSI/Tray	$239
Plextor-12CSI,115ms,12X,SCSI/Cady	$269

MultiMedia

SoundBlaster AWE64 (Retail Pkg)	$189
Sound Blaster AWE64 PnP/OEM	$98
Creative Lab SB32 AWE/OEM	$85
US Rob Sportster 33.6/56K	$98/$169
Diamond Supra 33.6 Rockwell w/voice	$59

Tape Backup

HP-C1554 Dat,24GB,DDS-3 SCSI/Int	$1345
HP-C1599A,4mm Dat,8GB SCSI Int	$798
HP-C1536 ,4mm Dat 4GB SCSI Int	$579
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WD33100A,3166MB,EIDE,12ms,128k	$229
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Fujitsu-2949SAU,9.1GB,U/S3,7200	$985
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Fujitsu-2954QAU,4GB,UW/S3,7200	$689
Micropolis-3391N,9.1GB,U/S3,7.9ms	$1198
Micropolis-3391W,9.1GB,UW/S3,7.9ms	$1275
Quantum-34320A,4.3GB,10ms,U/IDE	$289
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Quantum-2550A,2.5GB,EIDE,10ms	$197
Quantum-32110S,2.1GB,U/S3,11ms	$265
Quantum-32160S,2.1GB,SCSI,8ms	$259
Quantum-32150W,2.1GB,W/SCSI,8	$429
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Seagate-32155W,2.1GB,US/S3,9ms	$459
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Seagate-34371W,4.3GB,UW/S3,8ms	$759
Seagate-19171N,9.1GB,U/S3,8ms,7200	$1219
Seagate-19171W,9.1GB,UW/S3,8ms	$1298
Seagate-423451N,23GB,U/S3,8ms	$4298
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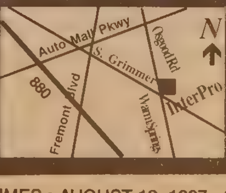
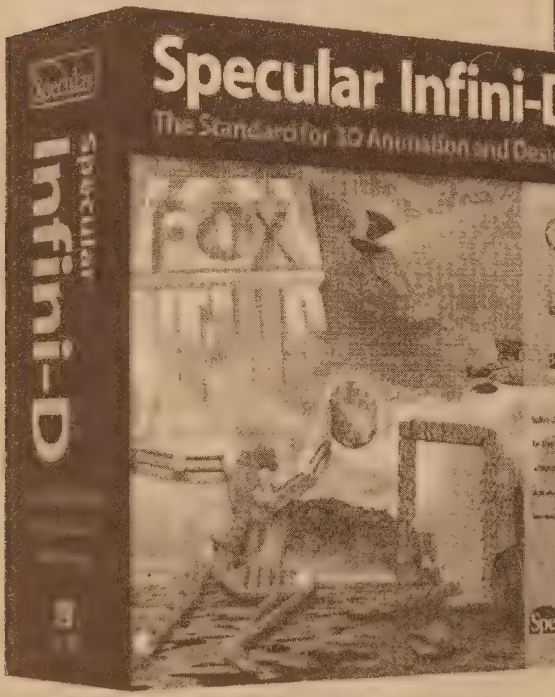
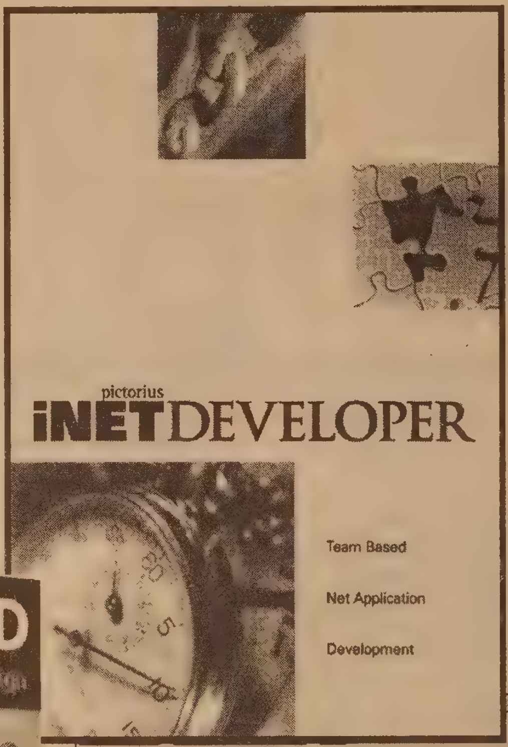
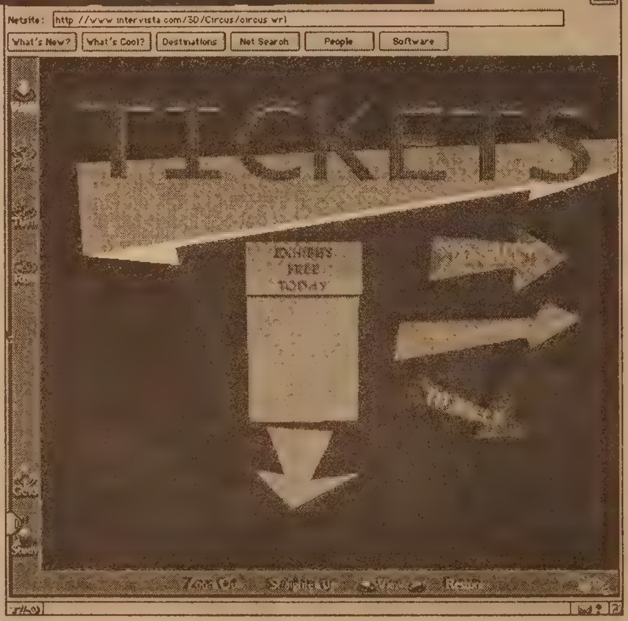


Product Announcements *continued...*

Internet or corporate intranet searches. Making use of Java's multi-threading capabilities, EchoSearch 1.08 enables users to simultaneously query multiple search engines. Once the complete hit list has been built, EchoSearch 1.08 again uses Java's multi-threading capabilities to simultaneously download the documents and to process them linguistically, extracting the important phrases and ideas. The resulting indexes and summaries are then matched against the user's original query and the user is presented with a condensed view that contains only the most relevant entries. These entries are then hyperlinked to their occurrences in the original documents. EchoSearch for the Macintosh can be downloaded for free from the Iconovex Web site. Iconovex Corp., 7448 W. 78th St., Bloomington, MN 55439. 1-800-943-0292, *fyi@iconovex.com*, or URL: *http://www.iconovex.com*.







iNet Developer

Pictorius Inc. has released the commercial version of Pictorius iNet Developer for Macintosh, a next generation intranet site development tool. Pictorius iNet Developer is a complete intranet development solution designed to allow multiple users in corporate environments the ability to create complex sites, manage databases and change content instantly with an easy-to-use visual interface. Anticipating the release of MacOS 8, Pictorius iNet Developer includes support for context-sensitive menus available only in the new OS. This enhances user productivity by providing immediate access to options available in specific areas of the application. Pictorius iNet Developer also gives IS managers powerful tools to build custom functionality into a site and enables content providers (e.g. Marketing, Finance, HR departments) the freedom to update and maintain site content themselves. With iNet Developer, both Macintosh and Windows PC users can update and edit the same site simultaneously. A demo version of Pictorius iNet Developer for Macintosh is available on the Pictorius Web site for general download. The demo does not include the programming environment. The commercial version of Pictorius iNet Developer is $1495. Pictorius Inc., 2000 Barrington St., Halifax, Nova Scotia, B3J 3K1, Canada. 1-800-927 4847, or URL: *http://www.pictorius.com*.

Infini-D 4.0

MetaCreations Corp. has released Infini-D 4.0 for Power Macintosh, the newest version of its professional 3-D animation program that offers video integration, 3-D animation power, high-end special effects and a truly interactive working environment. Infini-D 4.0 delivers the broadcast-quality video integration and fast feedback needed to create high-quality 3-D animations in a production environment. A new real-time preview over video instantly shows how the animation will composite over background video, and Infini-D 4.0 also features sophisticated particle systems with real-time rendering and full control over particle life span, color, emit rate, gravity and collision detection. Also included is a powerful set of deformation tools that quickly and easily create sophisticated 3-D morphing effects, allowing multiple deformations at once. Infini-D 4.0 is available now for Power Macintosh. Suggested retail price is US $899; upgrade price is US $199. The Windows 95/NT version is expected to become available before the end of 1997. MetaCreations Corp., 5550 Scotts Valley Dr., P.O. Box 66959, Scotts Valley, CA 95067-6959. (408)430-4100, or URL: *http://www.metacreations.com*.

WorldView 2.0 for Macintosh

Intervista Software, Inc., a provider of 3-D interactive software for the Internet, has released the Macintosh version of its Virtual Reality Modeling Language (VRML)–based Internet browser, WorldView 2.0. WorldView 2.0 for the Macintosh runs as a native Netscape plug-in and will be available on Microsoft Internet Explorer. Based on the suc-

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cessful Windows version, all of the powerful features remain, including support for the VRML 2.0 specification combined with Intervista's functional and performance enhancements and a simple, intuitive user interface. Additionally, WorldView 2.0 for the Macintosh uses the industry standard QuickDraw3D for rendering so that content developers and consumers may automatically take advantage of existing hardware acceleration. The WorldView 2.0 Macintosh public beta is immediately available to software developers and Internet users from the Intervista Web site. Intervista Software, Inc., 181 Fremont St., San Francisco, CA 94105. Email: *info@intervista.com* , or URL: *http://www.intervista.com* .

SuperOffice 4.0

SuperOffice Corp. has announced SuperOffice 4.0, a powerful network-ready business information management tool for multiple and single users on both Windows and Macintosh computers. SuperOffice 4.0 offers many new features including an Internet access button that directly links a company record with their Web site. With SuperOffice's intranet link for internal communications, new documents are created through the use of templates and no HTML experience is necessary. With SuperOffice's cross-platform capability, Macintosh and Windows computers (or users) can seamlessly share the same database file on a server. Furthermore, SuperOffice allows a company to link virtually any Windows and Macintosh application to SuperOffice to create templates such as letters, faxes, memos and reports. This ensures that an organization's previous purchases of hardware, network and software can be fully utilized. SuperOffice Corp., 130 Great Rd., Bedford, MA 01730. 1-800-328-6868, or URL: *http://www.superoffice.org* .

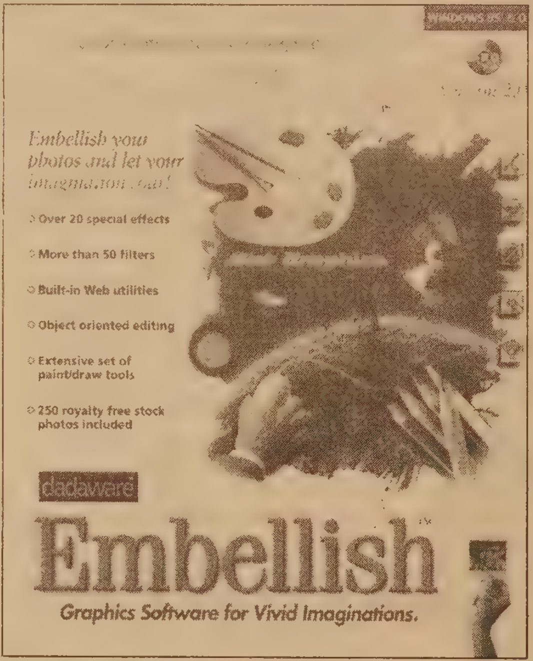
Reviews

PC Software Reviews

Embellish

Published By: Dadaware
List Price: $$69.99
Reviewed By: Douglas J. Nakakihara

Embellish is a capable, low-cost image-processing program that includes some features geared specifically towards Web graphics. As far as file formats are concerned, JPEG, GIF (not animated), TIFF, PNG, PCX, BMP, TARGA, SUNRAS, PBM, X11, PhotoCD, and MetaFiles are supported (load and save for most), as well as its own proprietary file format. You may use Embellish for batch processing file format changes, which can optionally include grayscale/black-and-white conversions.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Embellish
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Embellish is object-oriented—that is, changes to an image are tracked as separate objects that can be arranged and deleted independently after the fact. (Note: the implementation is not as rich as Photoshop's layers.) All of the standard painting, selection, sizing, and effect/filter tools that you would expect are available. Most tools also have a thumbnail window that previews the result before you actually apply the tool.

The screen capture functions are great and I like the image printing implementation in particular. You can independently define the image printing size and position prior to printing. There are also slideshow and thumbnail image catalog functions. Embellish supports TWAIN scanners and digital cameras, as well as pressure-sensitive input devices. It ships with versions for both Windows 95 and OS/2, plus about 250 royalty-free high-quality images.

For the Web, Embellish will convert an image to either Netscape or Microsoft Explorer palettes. Moreover, you can also define HTML image maps with URLs.

The only glaring omission is the lack of application keyboard shortcuts for this otherwise fine program. I like this program and am going to add it to my graphics arsenal. So when Photoshop is too much and MS Paint isn't enough, Embellish. (Dadaware, 900 Embarcadero Del Mar, Ste. E, Goleta, CA 93117. 805/961-4987, 1-800-961-4987. URL: *www.dadaware.com*)

Windows 95 OSR 2

Published By: Microsoft Corp.
Review By: Woody Liswood

The latest upgrade to Windows 95, called OEM Service Release 2 or OSR 2, has several significant new features. Unfortunately, it cannot be purchased by itself. As the name OEM Service Release implies, it is available only to OEM dealers who bundle it with new computers, or, occasionally, with the purchase of a new hard drive.

According to Microsoft, "because most of the new functionality in OSR 2 is applicable only to new hardware devices, OSR 2 will only be available on new PCs. However, many components of OSR 2 are already, or soon will be available for download from the Internet."

The most significant feature of this release is a new FAT32 file system. Under Windows 95, data is stored in 32K sectors, even if it is only 1 byte of data. OSR 2 uses 4K sectors to store data. This reduced the "waste" on my system from 246MB to 23MB. This is better than buying another hard drive. While I believe this should have been part of the original Windows 95, it certainly should be made available to everyone, not just new buyers.

The other major reason to want this upgrade is how OSR 2 handles video drivers. If you periodically get the dreaded OE or OC blue screen crash, according to Microsoft you probably have a video driver problem. Interestingly, many of those crashes disappear under OSR 2, although not all of them.

Older disk utilities are not set up to work with the FAT32 and could cause significant problems if used. Norton Utilities 2.0 and Nuts and Bolts have been updated to work with the FAT32 and are safe to use. Otherwise, unless you explicitly know your disk utilities are safe, stick with the utilities that come with the OSR 2 release.

This release has significant advantages for any Windows 95 user. Demand that Microsoft release it for all to use! (Microsoft Corp., One Microsoft Way, Redmond, WA 98052. 206/882-8080. URL: *http://www.microsoft.com/products/*) ■

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Gulch GOSSIP

by Jonathan E.

For the latest CD-ROM and software news & reviews, see our Product Spotlight section starting on page 200

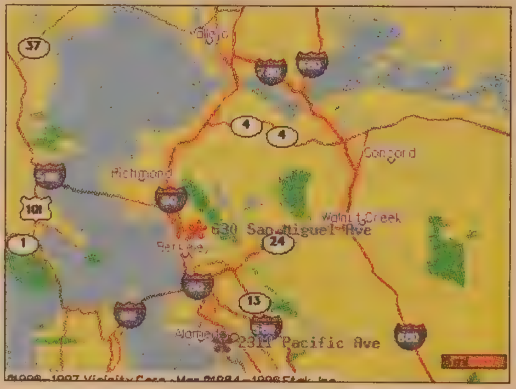
Why I'm Still Skeptical

We had a good laugh at the 4th of July fireworks viewing party hosted by **Fred Davis** and **Sylvia Paull**.

The cause of this particular merriment was a printout magnetized to their refrigerator door from the **Vicinity** Web service through **Lycos** showing the supposedly best route from their house on the Kensington/Berkeley border to an orchid grower in Alameda. The map suggested an overly complicated and elongated route from their house to I-80 where, instead of heading south directly towards Alameda, it directed turning north (officially east), continuing on I-80 across the Carquinez Bridge. It then advised taking city streets through Vallejo to get onto I-780 instead of simply using the cloverleaf connector. The route continued south on I-680, west on Highway 24, south on I-980 and then on to I-880, followed by driving around on city streets (including one that has probably never existed) in what is almost a figure eight rather than the most direct way from the freeway to the island of Alameda.

For those of you whose local geography is equally foggy, this is the equivalent of driving more than three-quarters of the way around a circle to cover one quadrant—rather like a giant question mark. Estimated trip time by this route is 85.7 minutes for 64.3 miles of travel—dig those precise decimal points!

If you simply got a map (from the **CSAA**, they're free if you're a member) and used your own intelligence, you might figure about 25 minutes driving and perhaps 18 miles!



Other test routes, while not quite as hilarious, revealed that the slogan "Get Lycos or Get Lost" would be more appropriately stated as "Get Lycos *and* Get Lost." Vicinity consistently failed to pick the best routes and dealt extremely poorly with freeway interchanges, frequently dumping you unnecessarily on to city streets.

Granted, there's a disclaimer with mock painful honesty that rapidly descends to infuriating condescension before ultimately just wimping out, "NOTE: like any driving directions/map you should always do a reality check and make sure the roads still exist, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning."

Excuse me, what's the point here? I'm trying to figure out how to get from A to B, something I can easily do with almost any printed map of any reasonable quality. Why would I want this so-called "aid to planning" that consistently gives bad advice? For a service like this to be truly useful, it must go the extra mile (beyond the ones it suggests I go!) and provide some sort of its own local "reality check," even a cursory one—like a little internal software testing before releasing it to the public, perhaps? Sometimes you just have to wonder if some of these clowns in the Web business have been outside in the past few years! Is there any connection with reality there?

> Sometimes you just have to wonder if some of these clowns in the Web business have been outside in the past few years! Is there any connection with reality there?

Scratch On The Wire Again

ALERT READERS WILL CATCH A QUOTE FROM THE GREAT **LEE "SCRATCH" Perry** at the end of this month's Multimedia 101. That particular quote, "black magic plastic bullets," comes from his spectacular 1987 collaboration with **Adrian Sherwood** and **The Dub Syndicate**, ***Time Boom X De Devil Dead.*** While some of the political references to **SDI** (remember the **Star Wars** that weren't a movie?) and **Margaret Thatcher** on that album were of the time, his reputation as a sound shaman and channeler of mystic truths would be established on the strength of that work alone.

PHOTO: ROBERT FINEMAN

However, Perry in fact goes back to the early days of Jamaican popular music, and his reputation is built on firm foundations—including a long series of successful singles in the '60s, production of what is considered by many to be **Bob Marley**'s best-ever work before he signed to Island and became a worldwide superstar, the co-invention of dub along with **King Tubby**, and perhaps most importantly the extraordinary recordings he made at his **Black Ark** studio between 1974 and 1979. Without doubt, he pioneered many of the techniques that are now commonplace in contemporary electronic-based music where the studio itself is used as an instrument—even if the studio is now frequently only a chip buried in a box.

The racks of any record store with a reggae section worth the name overflow with Lee Perry compilations, many of them of dubious provenance. (The Jamaican music business was even more of a Wild West than the Web business today!) However, a new triple-disc compilation from Island, ***Arkology***, provides a Rosetta Stone to unlocking Perry's amazing influence twenty years later. Packed with almost four hours of music, *Arkology* concentrates on his recordings from the Ark between 1975 and 1979, the peak period of Perry's productivity that came to an end only when his circuits overloaded and he suffered a system crash that finally manifested itself by his burning his own studio down. Now, *that's* how to cement a reputation and become a legend!

The music is quite superb, much of it on CD for the first time, with many tracks previously unreleased in any form along with generous helpings of extremely rare extended mixes that, were you to find them on original vinyl, would probably set you back the cost of a modest computer system.

What's extraordinary is that he made all this music on a simple four-track recorder, mixing tracks down and processing them on the fly. The advantage to the modern listener is that, if you want to study his techniques, they're relatively easy to pick out. The occasional rough spots in sound quality become fascinating bits of aural wabi rather than the imperfections they would seem to be in a contemporary recording. The three discs are accompanied by a generously illustrated, well-designed, and informative booklet with words set in type that is actually large enough to read! Now, that's what I call multimedia.

With the music magnificently played by the cream of Jamaica's musicians and the heartfelt lyrics from an assortment of vocalists, *Arkology* becomes an extended statement about

continued on page 210

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  The Evolution Of OM: Part 2
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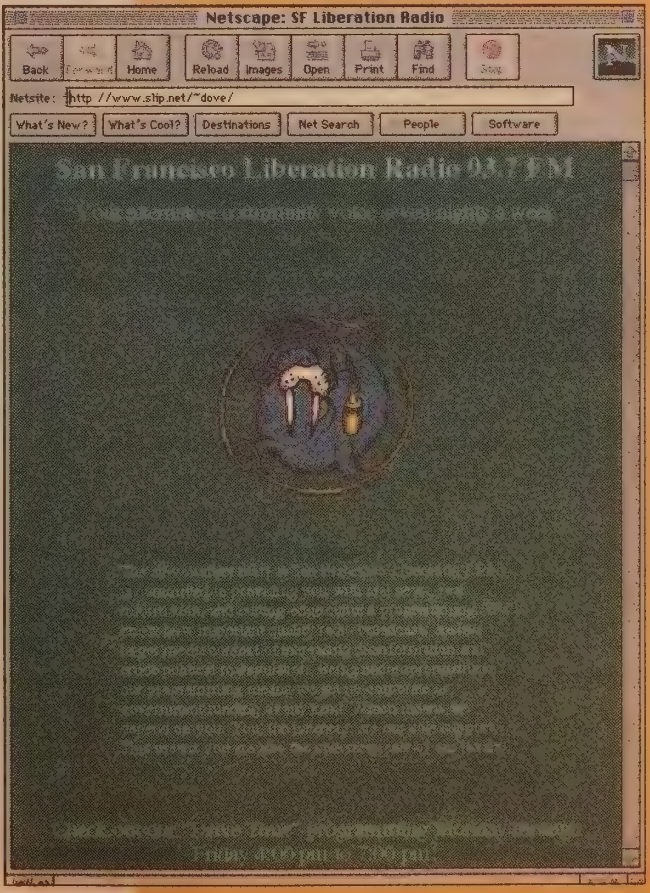
New Media Activism

ONE OF THE THINGS LEE "SCRATCH" PERRY HAS PROCLAIMED GOOD AND LOUD is "animal rights comes first." If you're of like mind—or just generally dissatified within the corporate cocoon, you may like the Web site at *http://www.slip.net/~dove/* that **Jackie Dove** created for **San Francisco Liberation Radio**, where she has a weekly program about animal rights.

As she writes, "We are a micro radio station serving San Francisco at 93.7 FM. We are not licensed by the government and we accept no advertising or corporate support. We are entirely listener-supported. We specialize in topics such as social justice, the environment, animal rights (with the only weekly program in the state of California), poverty, homelessness, police brutality, prisoners' rights, etc. We retrofit your reality seven afternoons and evenings a week!"



Among other things such as a schedule, the site has links to and news of the micro-radio movement nationwide, as well as offering a closer look at some of the programming. Now, that's what I call multiple new media with a purpose!

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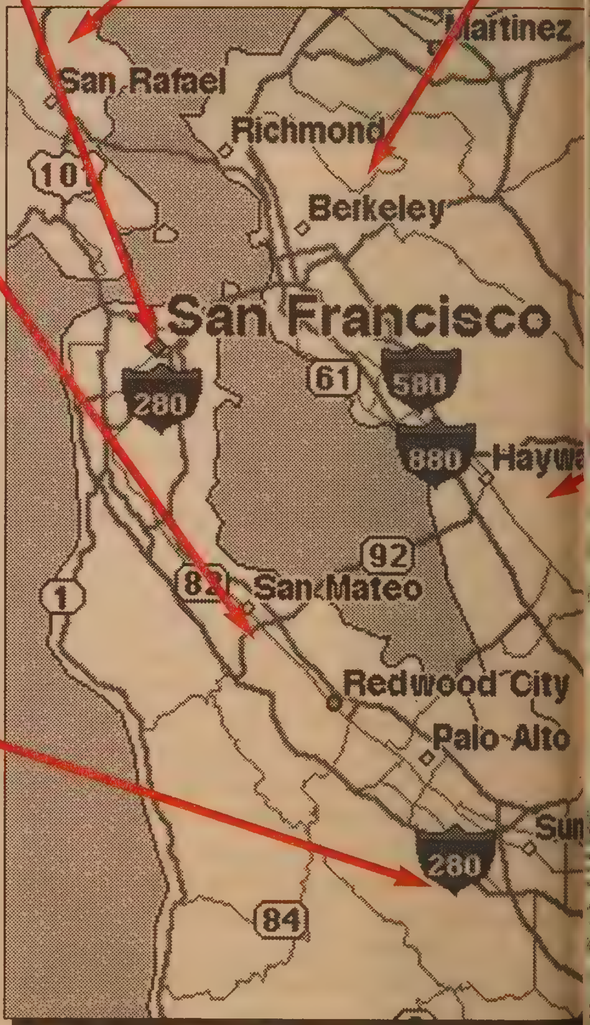

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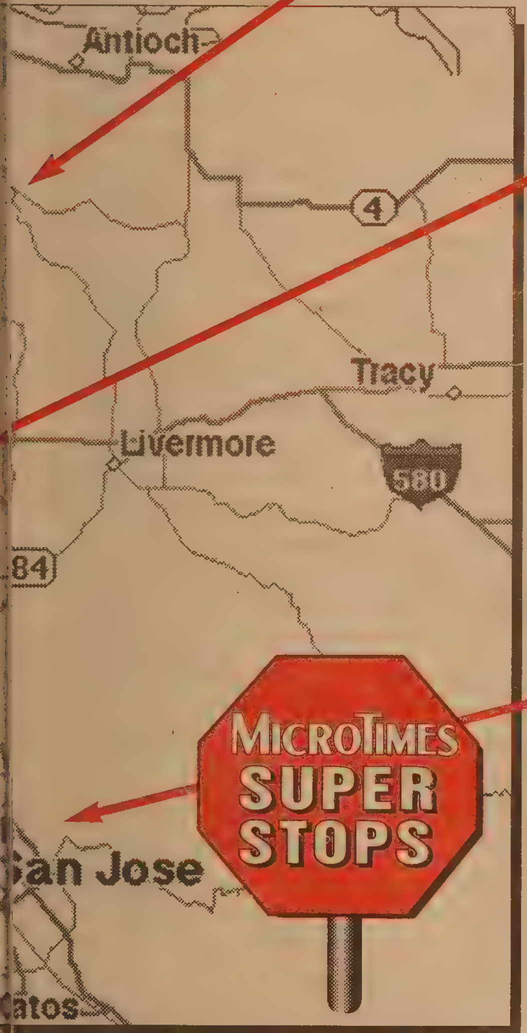

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MICROTIMES

GULCH GOSSIP

continued from page 207

the roles of man and machine in both art and life. Ultimately, it's an absolutely essential document for anyone interested in the early evolution of this branch of electronic music.

Searching for Lee Perry on the Net turns up tens of thousands of sites. If you want to read a real love letter to him, check *http://www.microweb.com/grtfljdi/leeperry.html* , a page from **Doug Wendt**, the Bay Area's original multimedia disc-and-video jockey (now spending much of his time in Montana, which he says is great). As with so many other amateur (done-for-love) sites, he's obviously having a hard time keeping up with what he's planned to do, but for a quick take on Perry and Bob Marley, it's worth checking out. His future plans include putting up excerpts from some of his radio shows—when the day (or year) comes that the Web can really handle audio. Meanwhile, he's also working on several compilations to come out on old-fashioned CD.

Unfortunately, the official Island site, *http://www.island.co.uk/island* , is still in that irritating state of construction where almost any click will dump you back where you just were without any explanation and the only Perry sighting within the site is a catalog listing of his ***From The Secret Laboratory*** release. *Arkology* isn't even listed in the New Releases section, 'cos that's one of those sections that isn't working yet. Never mind, *Arkology* is in the stores now.

Also perhaps in the stores by the time this sees print, but unheard by me at the time of writing, is a live recording from **Maritime Hall**'s new record label, **2b1**, of Lee Perry's April appearance in San Francisco. And, if you'd like to hear the local contemporary results of Lee Perry's influence on sound alchemy, be sure to check the First Year Anniversary of the weekly **DubMission** party at the **Elbo Room**, 647 Valencia, San Francisco, on Sunday, August 31, starting at about 9 pm. All the regular spinners will be there, taking turns at the turntables.

Kenneth Newby Crosses Borders

READERS WITH ELEPHANT-LIKE MEMORIES will recall that several months ago this column ran a short piece about **Kenneth Newby** being stranded in Vancouver by a local unnamed developer dropping plans to produce a CD-ROM featuring "adaptive sound," due to the perception of CD-ROM as a total dead duck.

Well, it seems as though Newby has decided to return to the Bay Area under his own steam via a series of appearances in support of his **City of Tribes** CD, ***Sirens***, at Borders stores between Vancouver and here. Once in the Bay Area, he'll be at the Emeryville Borders, 5800 Shellmound, on Friday, August 29 at 8 pm, the Palo Alto store, 456 University Ave., on Saturday, August 30 at 3 pm, and finally at the downtown San Francisco location, 400 Post St., on Sunday, August 31 at 1 pm.

Patti Clemens, City of Tribes founder and long-ago member of **D'Cückoo**, who provided some of the vocals for *Sirens*, will be appearing with him.

This column also promised to say "something intelligent" about *Sirens*, a task that is quite difficult as the music soars into territory where words are only pale shadows of the shifting shapes of the notes. However, Newby has forged a remarkable artistic alliance between acoustic instruments, primarily of Indonesian origin, and digital soundshaping. The results don't sound electronic in the throbbing techno style; there's a strong organic quality present throughout. Neither do they sound particularly Indonesian, which is often quite clamorous. Some of it sounds a little like **Jon Hassell** when he was interesting, before he got seduced by harsh beats.

Sirens includes contributions from many of the local musicians and artists who inhabit that fertile and mysterious area between blistering techno beats and new-age blandness, where ethereal electronics sidle up to ambient acoustics for a gentle embrace, sometimes called the Fourth World but also known as the territory of the Archaic Revival, a musical space where the Bay Area is particularly strong. *Sirens* has a dark quality but never a depressing one; rather, you'll be transported to places where you might rather spend your time, much as the original sirens of Greek myth would seduce sailors with their singing—but without the originals' later destructive inclinations.

City of Tribes has a Web site, *http://www.cot.com* , that has hopefully now been released from the clutches of the Web monsters that were holding it hostage a while ago, and where you might find any further info that you need. However, *Sirens* might safely be purchased if this type of music is your cup of tea. And if you'd like to email Newby with interesting proposals for musical projects, do so at *knewby@sfu.ca* .

continued on page 237

Picking Away At PICS

THE EVER-FRACTIOUS WORLD OF THE NET CONTINUES ON ITS JOLLY WAY WITH THE BRIEF MOMENT OF equilibriated accord over the **Platform for Internet Content Selection (PICS)** already coming apart at the seams after only a week's wear. There are questions and arguments as to why anyone should be able to block news sites, followed by questions of what then constitutes a news site, and whether libraries should ever block anything, and, more fundamentally, whether any publisher should ever agree to any ratings system, as some believe that amounts to self-censorship, and, on further principle, whether any filtering or blocking system does not then amount to imposing one's point of view on others and is thus antithetical to the spirit of the Internet.

What a bunch of ninnies!

We all ought to practice some self-censorship—I do with every word I write, hard as it may be for some of you to see that! Every communicator is constantly trying to get his or her point of view across; the question is how much coercion is acceptable. It's naive to believe that there isn't manipulation, however subtle, in any message, even one advocating no manipulation! And, of course, as we've seen again and again, once some technology has been invented, it's hard as hell to stuff it back in the bottle if there's a market for it. No, the thing to do is to recognize that we're all busy manipulating each other and lie back and enjoy it.

Let's turn this to advantage! We should all use PICS—not just those who are afraid of adult matter on the Net getting to their little kiddies. The great advantage of PICS is that it allows people other than the creators to rate sites, ultimately allowing the great and wondrous forces of the free market to provide a service that could help us all avoid wasting a lot of time looking at stuff we're not interested in. I'd like to see a ratings service with categories such as these: RI for Religious Intolerance, RB for Racial Bigot, CC for Consumerist Crap along with MT for Marketing Twaddle, IG for Intellectual Garbage, AF for Amateur Fanaticism, EC for Ethically Challenged, AB for Aesthetically Bad, SE for Spelling Errors, GS for Grammatically Suspect, IN for Internet Naivety, and PR for Plain Rubbish!

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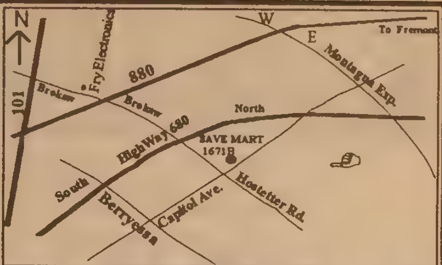

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Intel Tucson P-100/512K USB	260
Intel Marl P-233MMX /512K (ATX)	492
Intel Marl P-200MMX /512K (ATX)	362
Intel Marl P-200/512K PCI (ATX)	342
Intel Marl P-166MMX /512K (ATX)	251
Intel MarlP-150/512K PCI (ATX)	210
Intel Marl P-133/512K PCI (ATX)	208
Intel Marl P-100/512K PCI (ATX)	190
Asus TX97+ P233MMX/512K	563
Asus TX97+ P200MMX/512K	413
Asus TX97 + P200/512K	373
Asus TX97 + P166MMX /512K	307
Asus TX97 + P150/512K	266
Asus TX97 +AMD K6 233MMX/512K	469
Asus TX97 +AMD K6 200MMX/512K	369
Asus TX97 +AMD K6 166MMX /512K	287
Triton TX + P-233 MMX/512K	512
Triton TX + P-200 MMX/512K	382
Triton TX + P-200/512K	342
Triton TX + P-166 MMX /512K	275
Triton TX + P-150/512K	225
Triton TX + P-133/5126K	223
Triton TX + P-100/512K	207
Triton VX + P-200 MMX/512K	352
Triton VX + P-200/512K	312
Triton VX + P-166 MMX /512K	245
Triton VX + P-150/512K	195
Triton VX + P-133/5126K	193
Triton VX + P-100/512K	177
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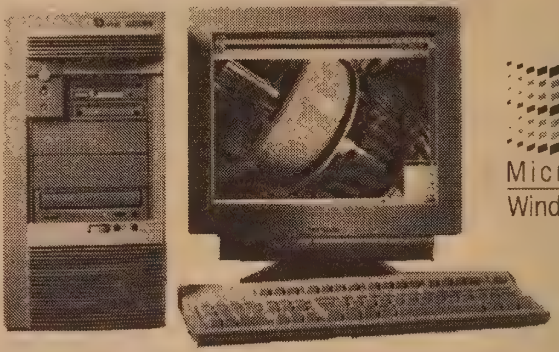

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MULTIMEDIA 101

The Evolution Of OM: Part 2

Music First

When we left OM Records in our last issue, we'd just heard that Eric Kalabacos had left his job as director of OM's interactive division, mostly due to the budgets available for the interactive portions of future OM releases. The question hanging in the air was whether OM would continue to release CD-ROMs with multimedia content or would concentrate on CDs with strictly musical content.

That question still hangs as OM has no current release dates set for any interactive multimedia productions and its next two releases by 80 Mile Beach and Terra Deva are music-only CDs.

However, John Cornett, marketing director, states that OM "is not backing off from multimedia" and that "our investors do not want to drop the ball." To help figure out how to keep that ball within its control OM has brought Ardy Khazaei on board as a consultant on the business issues involved in a sustainable mix of multimedia and music releases.

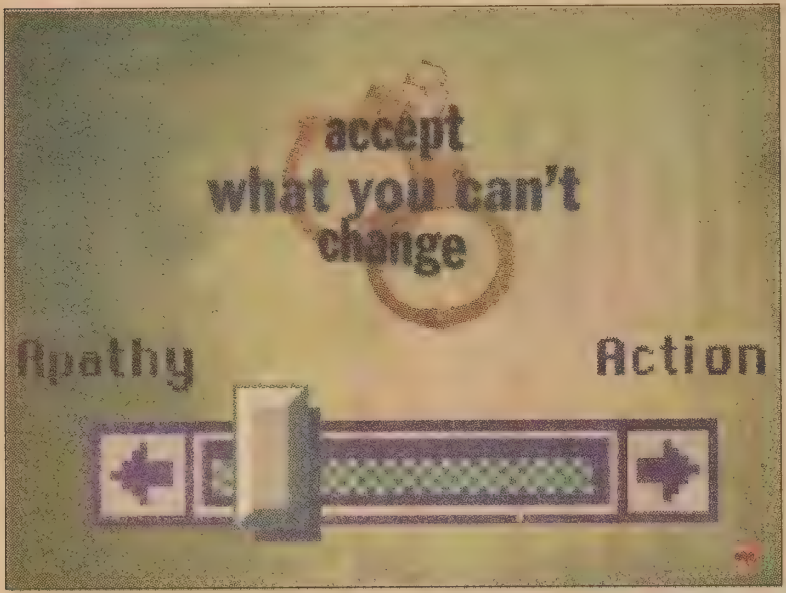
One thing that becomes immediately clear is that in today's market OM must firstly be successful as a music producer, and that success in the music-business arena will allow it to fund future multimedia releases. This is a change from its original strategy in the glory days of 1995 when the hype for ECDs and CD-ROMs was so fresh and strong that it seemed feasible to build a market emphasizing multimedia productions.

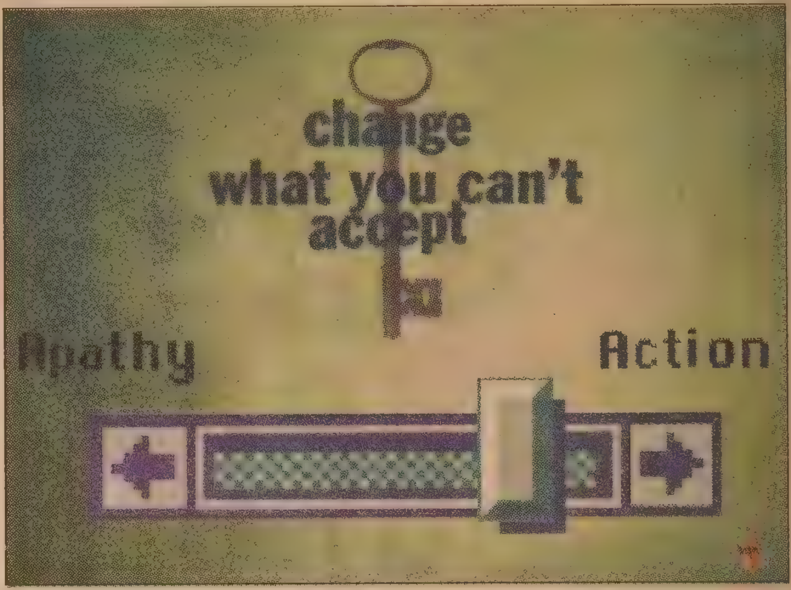
Even at that time, OM's goals always seemed ambitious. Basically, its proposal was to give the multimedia content away alongside the music. The only way this really made sense was that the music was licensed from other record companies, a relatively low-cost source of material, and with the hope that the multimedia material added so much to the marketing appeal that more copies were sold than would otherwise be the case, i.e. the marginal revenues would be greater than the marginal costs.

Conversations with several OMers reveal disappointment, perhaps even a certain bitterness, that the Recording Industry Association of America dropped its plans to educate the public about ECDs, leading to the record industry as a whole backing away from making ECDs a common format readily acceptable to consumers.

It might well also be argued that this marks a major failure of the computer industry to expand into a consumer market. Obviously the tumultuous conditions of rapid change along

BY JONATHAN E





with the multiple standards and formats of the computer world are inimical to what is traditionally understood to be the way the consumer media world works.

That world has a desire for relative stability, if not an outright resistance to change until the case for change is convincingly made by massive marketing. This is worth remembering amidst the widespread announcements being made over the past couple of months about music over the Internet. (A future Multimedia 101 column will tackle that subject!) One or both worlds will have to change their ways of operating, and consumers will also have to change their behavior quite dramatically, before the computer industry and its spawn can claim true bottom-line success in the consumer media world.

Just to balance things out, it's only fair to mention that the music business did not produce much in the way of appealing, let alone compelling, content for ECDs—partially because the potential for multimedia was ignored by most of the music industry for several years. To say the music industry was asleep at the wheel in the early '90s would be overly kind; willful ignorance as it gorged on the Nirvana-induced Seattle narcotic would be a more accurate description.

An alternate way of looking at OM's original concept was that it intended to give the music away with the multimedia content. However, this rapidly became a false proposition because of problems with the computer industry's retailing practices, specifically its big-box idiocy.

OM knew that it had to sell its ECDs or CD/CD-ROM packages at close to standard music retail prices (which are already widely known to be over-inflated and thus resented by consumers). However, to get into computer retailers OM would have had to produce a big box for display on colonized shelf space, increasing the cost of its releases by several dollars without increasing their value to the consumer by even one cent. OM's distribution in the music world is already dificult enough without complicating things still further by dealing with the added lunacy of computer-store retailing. The marginal costs of that distribution channel looked much greater than the marginal revenues—and so OM must be successful first and, for now, foremost as a music operation.

To get into computer retailers OM would have had to produce a big box for display on colonized shelf space, increasing the cost of its releases by several dollars without increasing their value to the consumer by even one cent.

FORWARD—IN EVERY DIRECTION!

Being a music operation in this day and age, however, means using multiple media to at least get your message across even if you don't actually receive cash directly for all that media. Thus, Khazaei declares that "OM will definitely relaunch its Web site with a redesign and new features such as OM Radio, a Shockwave application presenting sounds and pictures."

Also on the promotional front, OM recently exhibited video pieces from both *Mushroom Jazz* (the video for Blue Boy's "Remember Me" produced in-house by Brandon Martinez) and *Radical Beauty* (by Nick Philip) at the New York Short Film Festival. Philip's videos will be seen on MTV's Amp "electronica" music show, while the Blue Boy song looks as though it will repeat its European success in the States with the M2 channel already playing the video. Khazaei is also looking into that channel's possible interactive features using Intel's Intercast system of transmitting data in the Vertical Blanking Interval between frames.

More traditionally, OM is working on setting up a tour for the artists on *Deep Concentration*. The Digital Beatbox from that title may become a stand-alone product, perhaps in association with a major software company. Negotiations are currently underway and no one at OM wants to say too much. However, Khazaei says that one way or another OM will continue to develop the Beatbox into various versions. Obviously, with some design changes, and if it becomes a success, the Digital Beatbox opens up a lot of possiblities in the field of interactive music and tie-ins with OM's other artists.

Khazaei sees the Web as "limited in relevance" when it comes to actual future products, being more suitable for information and

continued on page 220

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MS Natural Keyboard	75
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Sony 100SX	379
Sony 200SX	719
Nanao T2-17TS	945

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Logitech 2-Button	22
MS Mouse/Bus	49/79
Logitech Mouseman/Bus	39/69
Logitech Marble Trackman	85
Kensington Expert Mouse	99
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CONTROLLERS

IDE Controller 2FD/2HD	$15
IDE I/O Controller	18
Promise 2300 Plus	59
Adaptec 2842VL SCSI	239
Adaptec 2940 PCI SCSI	199
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Marl M/B w/512K Pipeline Burst	$119
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Pentium®-166 PCI w/CPU	259
Pentium®-166MMX w/CPU	269
Pentium®-200 PCI w/CPU	339
Pentium®-200MMX w/CPU	379
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Deskjet 870C	$399
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LaserJet 6PXi	799
LaserJet 5L	1059
ScanJet 5P	375

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Zoltix 33.6 Int Fax Modem	70

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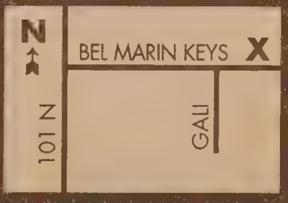

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- 32 BIT EIDE w/2S/1P/1G(16550)
- Quantum **Ultra DMA** 3.2GB 33 Mb/s
- **Diamond Fire GL 1000 w/8MB**
- **Soundblaster AWE 64 Value**
- **Teac 24X CD-ROM**
- **Tyan ISDN/33.6K** Combo Modem
- **Acer** 60 Watt Speakers
- Medium Tower Case
- Microsoft Windows 95 CD
- Mitsumi 104-key Keyboard
- Logitech Mouseman II

$1699

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- FIC Motherboard w/256k PB
- **AMD K6 200 MHz CPU w/MMX**
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- **Adaptec Ultra Wide SCSI Card**
- 1.44 MB Floppy Drive
- EIDE w/2S/1P(16550)
- **IBM 4.3 GB Ultra Wide SCSI**
- **17" .28 DPI Digital Monitor**
- **Diamond 3D 2000 w/4MB**
- **Teac 24X CD-ROM**
- Soundblaster 16 Compatible
- Diamond **56K** Fax/Modem w/voice
- **Acer** 60 Watt Speakers
- Medium Tower Case
- Microsoft Windows 95 CD
- Mitsumi 104-key Keyboard
- Microsoft Intellimouse

$1849

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DUAL DIMENSION NT PRO

- Asus **Dual** PentiumPro Main Board
- One **Intel Pentium Pro 200 CPU**
- 5 PCI / 3 ISA Slots
- **64MB** EDO RAM 60ns
- 1.44 MB Floppy Drive
- 2S 1P IO(16550)
- **Teac 24X CD ROM**
- **Quantum 3.2 GB EIDE HD**
- **Diamond 3D 2000 w/2MB**
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- Mitsumi 104-key Keyboard
- MS Window **NT 4.0** WorkStation With **5 Client License**
- Soundblaster 16 Compatible
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- Microsoft Mouse w/Mouse Pad

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- Intel Pentium II - **266 MHz** With MMX
- Intel 440FX Chipset
- 32 MB EDO RAM 60ns
- 1.44 MB Floppy Drive
- Asus 875 PCI Ultra Wide SCSI Card
- **IBM 4.3 GB Ultra Wide SCSI**
- **Number Nine** 128 Series 2 4MB
- **17" .28 DPI Digital Monitor**
- **Teac 24x CD-Rom**
- Tyan **ISDN/33.6K** Combo Modem
- **Sound Blaster Awe 64 Value**
- Acer 60 Watt Speakers
- Asus Tower ATX Case
- Keytronics 104-key Keyboard PS/2
- Microsoft PS/2 Mouse W/ Pad
- Microsoft Windows 95 CD

$2749

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ACS-51	$62
ACS-20	$83
ACS45 3 Speakers W/ Sub Woofer	$79
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ACS300/ACS500	$199/$299
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Tropez+ 16Bit Sound Card 32-Voice	$229
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YST-M15	$69
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8X IDE Int	$65
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Courier ISDN V.34 with NT1 Int/Ext	$258/$334
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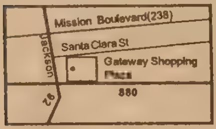

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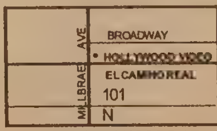

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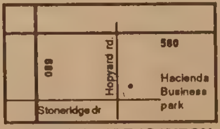

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- SoundBlaster 16 Compatible
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- Microsoft Win '95 CD
- Mini Tower Case
- Mitsumi 104-Key Keyboard
- 3-Button Mouse With Mouse Pad

$779

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- PCI Enhanced IDE Controller
- High Speed I/O (2S 1P)
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- Diamond 2500 Video Card w/2MB
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- 3D Sound Card
- Acer 60 Watt Speakers
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- PCI Enhanced IDE Controller
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- 32 Bit EIDE W/ High Speed I/O
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- **Diamond 3D 2000 w/4MB DRAM**
- **Soundblaster Awe 64 Value**
- **E-Tech 56k Modem w/Voice**
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Marl-II Triton II 430HX Chipset w/512K Pipeline Burst, EIDE, & HS I/O P75-P200	$118
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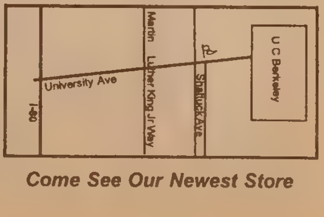

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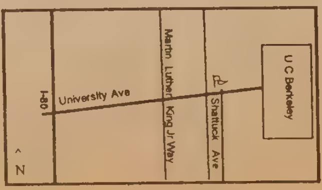

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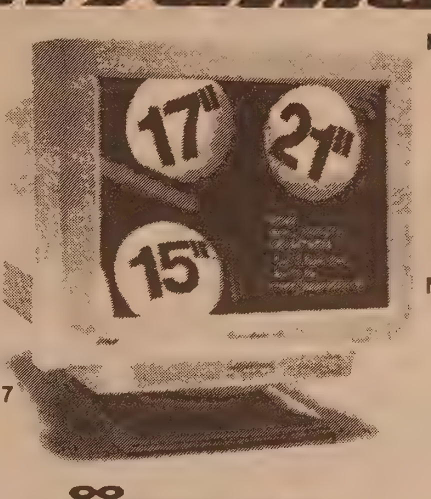

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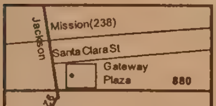

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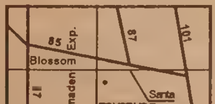

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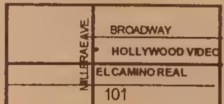

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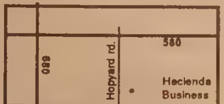

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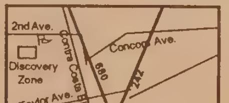

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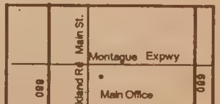

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MULTIMEDIA 101

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research uses rather than for true audio entertainment. What he does have his eyes on for future product platforms are DVD and interactive TV.

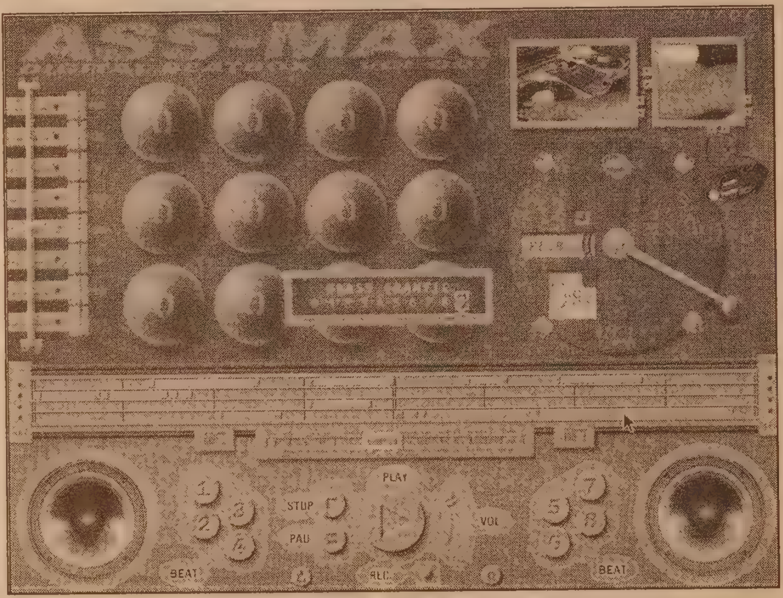
RADICAL BEAUTY

With all this as background, one hopes that OM's recent release of *Radical Beauty* does not turn out to be its swan song in the interactive world. *Radical Beauty* is another double-disc title with a CD collection of contemporary electronic music compiled by Nick Philip (and with him as collaborating artist on one track), along with a CD-ROM of Philip's interactive multimedia treatments, called "interactive haikus" on the sleeve, and videos. While not the most ambitious multimedia work ever seen, *Radical Beauty* is extremely interesting and could serve as a signpost to a viable multimedia model for the future.

Part of *Radical Beauty*'s strength comes from the fact that it has some ideas behind it; it's not just a technological toy. Indeed, *Radical Beauty* asks questions about the role of technology and the changes it is wreaking in society. As Philip admits in a conversation snatched while he was busy rendering his videos to broadcast quality for MTV: "In the early '90s, I was more blissed out on technology, but *Radical Beauty* is darker. From a macro perspective, technology's producing major changes; sometimes it seems like progress but, at others, I think it's just amplifying everything both good and bad. *Radical Beauty* expresses my abstract feelings about society."

Radical Beauty begins with a woman's wireframe head that revolves and then explodes. One of the shards becomes a blank sheet of paper upon which a typewriter bangs out a quotation from John Cage concerning the history of art and seeing things as they are, not as ugly or beautiful. Here, Philip has provided for the most fundamental (and necessary) interactivity by putting up a different cursor to tell you that clicking will let you escape to the next sequence, which is a series of video clips of nuclear explosions and their results showing the destructive qualities that misuse of technology has. A nice fade from a mushroom cloud into a droplet splashing into liquid leads into a calmer mood and then you reach the central interface, which conveniently enough is four interactive faces, split horizontally into rotating thirds that when consistently lined up lead you on to the rest of *Radical Beauty*.

Two faces each take you into a video depicting Philip's responses to aspects of the technology/biology intertwinement. Both are fairly abstract, with heads tumbling through space, eyeballs morphing, embryos, heads and skulls emerging from unfolding flower petals, spheres turning—that kind of thing. On a PC the pixels are doubled so they look blocky, but when rendered to video they should look pretty good.



For desktop animations by someone who is not primarily an animator, they're quite impressive. At the end of one video, you're back at the main head interface with a particularly good transition, while the other video leaves you at another interface of an interactive skull. Match up the eyes and the teeth and you'll get either another video or one of the two "interactive haikus" at this level. Both borrow from standard computer interface elements. One is a progress bar that moves to completion through a series of calamitous events, oxone depletion, ethical collapse, dehumanization, and so on. Clicking the stop button gets you to a screen of links to organizations with Web pages attempting to do something about these issues—Greenpeace, AdBusters, People To People, Computer Professionals for Social Responsiblity, etc. Clicking on one launches your Web browser, dials your ISP and you're on the Internet (assuming you've configured things correctly). The other interactive haiku is a slider that you move between apathy and action to elicit an appropriate graphic and soundtrack. These are both simple but effective little interactive devices.

Back at the main head interface, one of the other combinations, the naked skull, takes you to another interactive device consisting of a carrot that, try as you might, you cannot grab with your cursor, all the while being subjected to audio from various obnoxious advertising slogans, "Find out how!", "Act now!", "No payment necessary!", "The hottest!". A trenchant take on consumerism and advertising, indeed!

The last combination of the head, the Buddha, takes you to the sound mixer, which is somewhat similiar to the one on *Mushroom Jazz* but with different sounds. It has a different interface and somewhat lesser capabilities than the Digital Beatbox that comes with *Deep Concentration*. Even without all the features of that later model, my reactions to it are overall fairly similiar.

While Philip did not do all the work on the CD-ROM, he did a substantial amount of it. One of the interesting things about Philip is that he has gradually expanded his skills in an organic manner from straightforward graphics done without a computer in the late '80s through computer graphics when he got a computer in the early '90s to his present multimedia capabilities. In some ways he exemplifies the original vision of the computer-enabled desktop multimedia artist. This is apparent in *Radical Beauty*'s masterful integration of all its elements into one cohesive yet nonlinear whole.

As Philip says, "It's important to use the medium for what it is, not to make something linear and then stick some multimedia on like most of the rock stuff but to create something that works as a whole thing." In this he's following in the footsteps of such artists as Laurie Anderson, Brian Eno, and Emergency Broadcast Network, who have one foot in the music world but who have always used other media types to express their artistic visions more completely. One day, perhaps, this will be a more common channel of artistic productivity, but for now it seems to be still off in the

continued on page 237

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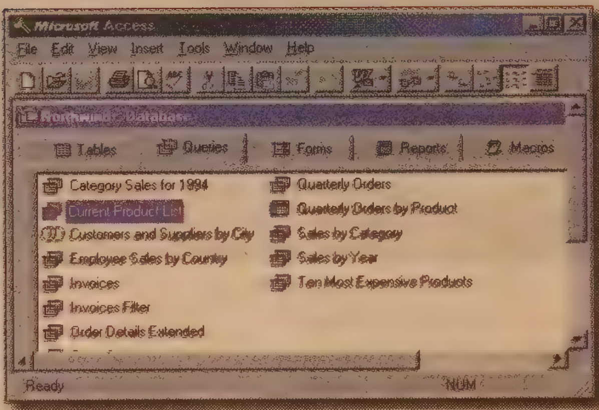
Virtual PC Opens Windows On The Mac

Plus: PopupFolder And Other Useful Stuff

You can't do Mac on a Wintel machine, but for some years there have been ways to use DOS and Windows on a Mac frame. With a NuBus or PCI DOS card or Windows card from Apple or third-party vendors like Orange Micro, you can shift back and forth between worlds and even copy and paste and transfer files between operating systems. For a while, Apple offered a machine pre-configured and hardwired for both OS persuasions, like the Power Macintosh 7200/120 PC Compatible. On the software side, Insignia Solutions Inc.'s SoftWindows/SoftPC have offered basic DOS and Windows emulation.



Now, from Connectix, the house that gave us RAM Doubler, Speed Doubler and QuickCAM, comes Virtual PC's full-bore Wintel emulation. Without being forced to buy a second, IBM PC-compatible computer, you can now run programs, CD-ROMs, and online applications that were once unavailable to you because there was no Macintosh version to be had. Because Virtual PC is software emulation, it will never deliver the sharp snap-of-Doom that a DOS card will with its built-in Intel processor, but for most operations, you probably won't notice the difference. With a street price of about $150, Virtual PC is appearing in mail order for as low as $140.

Connectix has created a jack-of-all-systems—an application that can also be called upon to run Windows NT, IBM OS/2, and OpenStep, and

BY TONY REVEAUX

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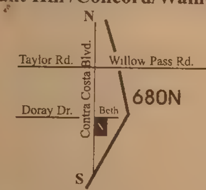

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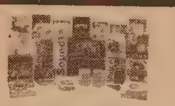

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VIRTUAL PC OPENS *continued...*

which promises to accommodate almost any other OS that comes along based upon the Intel x86 architecture. Virtual PC will support MacOS 8 when it is available. Virtual PC provides full Sound Blaster Pro support, Ethernet networking support and modem support. It runs my external CD-ROM player in full "plug & play," without ever having to configure settings or drivers. I am able to install and read Windows CDs as easily as on a PC clone. If the Mac can recognize and use the hardware serial device, then Virtual PC can recognize it as well.

Without being forced to buy a second, IBM PC-compatible computer, you can now run programs, CD-ROMS, and online applications that were once unavailable to you because there was no Macintosh version to be had.

This program is designed as a way for Mac users to run PC software. However, don't expect it to recognize or support PC hardware. The documentation is barely adequate, but we will have to wait for some good third-party books to arrive that can cover the expanded realms of cross-platform issues that using Virtual PC raises.

REQUIREMENTS AND SETUP

Offered in a Windows 95 and a Windows 3.1 version, both packages include the Microsoft Mother Tongue, MS-DOS. If you already own those programs, such as Win 3.x to add to your Windows 95 version of Virtual PC, the application will recognize them. In this case, you should install the DOS before the Win 3.x. And if you have the Win 3.x version of Virtual PC, you can install Win 95 and it too will be recognized.

If you expect to run Windows 95, your Mac must have a processor that is a PowerPC 603e, 180MHz or faster; any 604e or 604 is recommended. You need 24MB of installed physical RAM as a minimum; 32MB is recommended. The largest amount of PC memory that can be recognized is 128MB. Sorry, but Connectix's own RAM Doubler will be of no help here; in fact, you will have to turn it off. For all of these applications and operating systems, reserve 150MB minimum of hard drive space; 300MB is recommended.

On the Mac side, be sure that your native OS is up to snuff with System 7.5.5 or later. A CD-ROM drive is also required.

For the Windows 3.11/MS-DOS version of Virtual PC the demands are less stringent. Any PowerPC running at 100MHz or faster is recommended; RAM requirements will be a minumum of 20MB installed physical RAM (24MB recommended), 100MB minimum hard drive space (200MB recommended). Here, too, you will want System 7.5.5 or later and a CD-ROM drive.

TUNING FOR SPEED

It can't be overemphasized how critical processor speed is to Virtual PC; the more, the better.

As an example of that need, and to test the robustness of the program, I ran the Windows 95 version of Virtual PC on a 100MHz machine, a PowerBook Duo 2300c. It labored mightily to open graphics documents and applications, taking minutes to open a window that would normally open in seconds. But it seems miraculous how otherwise completely normal and fully functional the entire Windows 95 interface and processes perform in Virtual PC, even when the hardware is so underpowered.

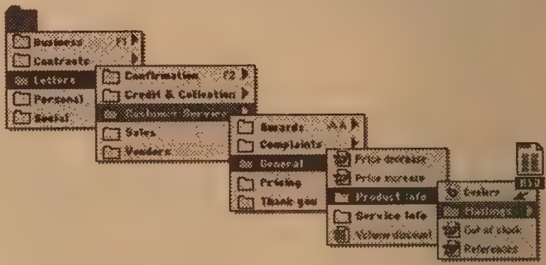
Connectix has some suggestions for making Virtual PC run faster and smoother. First, add a Level 2 cache or increase the size of the current Level 2 cache. Virtual PC performance benefits from a larger Level 2 cache; 512K to 1MB Level 2 cache is recommended. Second, if your system is capable of processor upgrades, a faster processor (such as a PowerPC 604e) offers an improvement in speed. Finally, if you are using Windows, having more physical RAM allocated to Windows helps overall Windows performance.

So if you are consumed with VRML-envy on the World Wide Web where most of those nifty 3-D worlds are off-limits to Macs, and you lust for the plethora of plug-ins for all those neat streaming video sites that are Windows-only, Virtual PC can help get you through those doors. Now, all you have to do is learn Windows ...

POPUPFOLDER

Yellow Box, Blue Box—the interface race continues. The MacOS is in for some changes; ditto the look of the desktop.

PopupFolder in Action



Here's a little utility that actually improves the functionality of the Finder-based hierarchical Graphic User Interface of the Mac. ASD Software, Inc.'s PopupFolder 2.0.1 has been around for a while, and I wouldn't be without it. Used with System 7 it allows you to click on any folder; their menus will pop up, and you can continue down to at least sixteen levels.

The little triangular "carrot" on the bottom right corner of the folder marks it as active under PopupFolder. Just click on the upper part of the folder and you get a Windows-type feature—the menu will stay popped up when you

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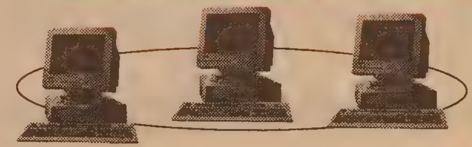

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VIRTUAL PC OPENS *continued...*

move the cursor away from it. Move the cursor over the static menu, and it actively selects each entry. Releasing the button once the item is selected launches the item. It also works in Open and Save dialog boxes. PopupFolder's poppery extends to the Apple menu and on into many utilities and applications, like Netscape Navigator.

Not only can you carve down through the hierarchy to get at the selected file, folder, document or application that you want to open, but you can also Grab-and-Drop. Press Command-G and the menus will close, wait a couple of seconds, and a small preview outline will appear at your cursor. From there you can bring the item to the Trash Can or a folder, or go back down through the folders to find the place where you want to move it. Release the mouse button, and there it will rest. The Grab-and-Drop does not work in Open and Save dialog boxes.

When using my PowerBook Duo, I took advantage of one of PopupFolder's options. I selected the "Allow small icons on desktop" checkbox from the PopupFolder control panel. That allows you to highlight any item on the desktop and change it to "by small icon" in the View menu. I applied that to the long Apple menu, so it takes up less of the small screen when opened. I like the menu's new compactness so much that I keep it for the big 20" monitor supported from the Mac's Duo Dock.

PopupFolder is available from mail order houses like The Mac Zone where it is priced at $29.98. You can download a free demo from ASD's Web site.

So if you are consumed with VRML-envy on the World Wide Web where most of those nifty 3-D worlds are off-limits to Macs, and you lust for the plethora of plug-ins for all those neat streaming video sites that are Windows-only,

Virtual PC can help get you through those doors. Now, all you have to do is learn Windows.

THE BOOK NOT TO BRING ABOARD THAT AIRLINER

Sad Macs, Bombs And Other Disasters—and What To Do About Them, Third Edition by Ted Landau (Peachpit, 964 pp, $29.95) is a good book to keep within arm's reach of any Motorola-driven machine.

My first reaction to the hefty weight of this tome was "Yow—can that much go wrong with my Mac?" Landau has exhaustively tallied the full multitude of sins that silicon can commit here, and explicates them in full detail and cross-referencing. He is relentless about exposing all those enigmatic Error Codes for what they really are. Each problem is unfolded with Symptoms; Causes; What to do; and often, Take Notes. He deals with the full architecture and hierarchies of the Macintosh universe. There are chapters on topics such as printing, graphics, PowerBooks, online, incompatibilities, how to ref those prefs, SCSI and tech support. About the only problems and solutions you won't find here are those that have their origins in third-party products.

Windows Annoyances, David A. Karp's 285-page book (O'Reilly, $29.95) can help you to customize Win 95 and WinNT 4.0 as well as make more sense out of these top-heavy operating systems. Organized as a quick-to-find reference, the book excels in what I would call "between the cracks" levels of useful detail. Not only *that* you can remove that speaker icon and turn off the Documents Menu, but *how* to do it.

He reveals methods of analyzing and changing elements and procedures, while revealing the inconsistencies, lapses and defaults that abound in these big environments. He digs into the registry, suggests ways of maximizing performance and troubleshooting, and provides sources for the kinds of third-party software and utilities that help you work around the workarounds. You can preview much of Karp's material at his Creative Element home page, *http://www.creativelement.com/* . ■

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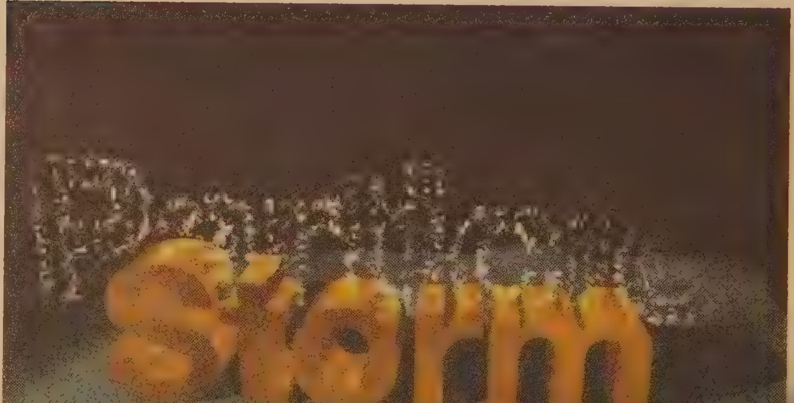
Particle Storm For LightWave 3D

Creating Fire, Snow, And Rocket Jets

Dynamic Realities' Particle Storm is one of the most ambitious LightWave 3D plug-ins available. It allows you to create, with relative ease, effects that would normally be impossible using LightWave alone. These include effects like fire, rocket jets, snow, sparkles, and much more.

However, don't get the impression that you just click the "make rocket jet" button and that's it. It's a little bit more complicated than that; what follows is just a tiny taste of the results possible.



"Particles" in LightWave lingo are single-point polygons and have no volume in 3-D space. Moreover, if it wasn't for special rendering features in LightWave, they wouldn't be visible at all.

While they are often just used as dots to fill a starfield, LightWave's Particle Blur and Surface Glow functions give them the ability to have a collective visible mass, so they can be used to form things like smoke, fire, and water.

The main Particle Storm interface is accessed through the Generic Plug-in menu in the Layout's Options panel. Here you create your particle movement, which is saved to a LightWave object file and a special Particle Storm data file. From there, you return to Layout and load the object. You must also set Particle Storm to be the Displacement Map Plug-in for the object and load the data file.

A ROOM WITH A VIEW

Particle Storm features a real-time Preview area (i.e., window). Here you can see just exactly how your particles are going to behave in real time. Particle Storm's interface uses several pages of settings, but the Preview area

BY DOUGLAS J. NAKAKIHARA

always remains visible. Depending on which effect page you are manipulating, you can usually use the mouse in the Preview area to adjust relevant parameters interactively. Because of the complexity of the settings, as well as the countless possible combination of effect settings, this visual feedback is invaluable.

In the Camera Edit page, you can adjust your virtual camera's point of view for the Preview window. As in LightWave, you can also move and rotate your camera, as well as parent or target it to the LightWave camera, an object, or light. You can even have multiple cameras, allowing you to quickly flip between different points of view. These features allow you to monitor your particles with great flexibility.

> **Controllers** *are the various effects* **you can assign independently** *to any particular group.*

The Preview area has a set of VCR-like transport controls, like rewind, record, pause, play, and step frame. There is also a frame number and time display. While setting up your Particle Storm project, you'll use the playback functions to view the results. Then when you're done, you can record the action. This creates the special LightWave object and the Particle Storm data files.

You can configure what you see in the Preview area by changing the Viewing Preferences. Depending on your machine's horsepower, you may want to play with the settings to get an optimum playback rate. You can also change colors to suit your taste.

GROUP THERAPY

Generally, it all starts with a "Particle Group." Many effects can be achieved with a single group, but you can also use multiple groups if you like. In the Particle Groups Edit page you define the group name, as well as the number of particles in the group. The particles can optionally "recycle," which means there will be a never-ending constant flow of them, as in a river or rocket jet.

Controllers are the various effects you can assign independently to any particle group—collision detection, gravity, wind, etc. For example, if you want wind to affect a particle group, you create a wind controller and then assign it to affect the desired group.

However, the Particle Group Edit page also includes a list of all controllers used in the project. Controllers that are set to affect the currently selected particle group will be highlighted in the listing. You can scroll through the list of groups and see which controllers affect it. This is handy if you are using multiple groups and each has different controllers affecting it.

Because you are constantly flipping between the Controller Edit pages, it would be easy to accidentally forget to turn something on, like wind, or turn it on unintentionally. In the Particle Group Edit page, you can eyeball the controllers and make sure the right ones are selected, or not selected.

THE SOURCE

The Fountain Emitter controller is the source of any particle. The emitter can be in the shape of an ellipse, box, or LightWave object. The Preview area will show a physical representation of the emitter, but it will not be visible in the actual LightWave scene. Using an object file allows you to do things like sparkling text and logos, or have the particles appear to be coming off an object, like a comet.

As with many of the controllers, you can move, rotate, size, and stretch an emitter, as well as parent it to a LightWave object, the camera, or a light. For Fountain Emitters, you also set the birth rate, which affects the amount of particles flowing from the emitter. The initial speed of the particles can be set to a minimum and maximum range. You can also set the conical spread-shape of the flow using minimum and maximum degree settings. The flow can be spread out wide or be a narrow stream.

COLLISION DETECTION

Many effects will require collision detection. This feature allows the program to do something special when it "detects" a "collision" between a particle and another object. If you wanted your particles to look like falling snow, you'd definitely want the flakes to stop and accumulate on the ground, right?

The Collision Detection Edit page allows you to set up collision shapes. You have the option of using the built-in sphere or box shapes, or load your own LightWave object file. The amount a particle bounces when it hits the collision surface, as well as the amount of friction, are adjustable. The object can be moved, rotated, sized, and stretched numerically or interactively using the Preview area. In addition, the collision object can also be parented to a LightWave object, the camera, or a light.

Note that the Collision Detection object will not actually appear in the LightWave scene. As such, if you were using a LightWave object as a Collision Detection object, you'd also have to load that object into the scene.

DEATH WISH, AND OTHER CONTROLLERS

The aptly named Death Wish controller determines how long particles will exist and how they die. If you were making a rocket jet, you would want the particles to disappear fairly rapidly. On the other hand, if you were making snow, you wouldn't want the particles to ever disappear. (Well, OK, maybe if you lived in North Dakota...)

Besides being able to set a particle's lifespan in terms of time, you can also use events—collision, minimum speed, and maximum speed, for example.

Force Fields are interesting little creatures. They are spherically-shaped regions that either attract or repel particles that come within their areas. Force Fields form a relative area of influence, as opposed to a Collision Detection controller which forms more of a physical boundary. The field is stronger towards the center compared to the outer area.

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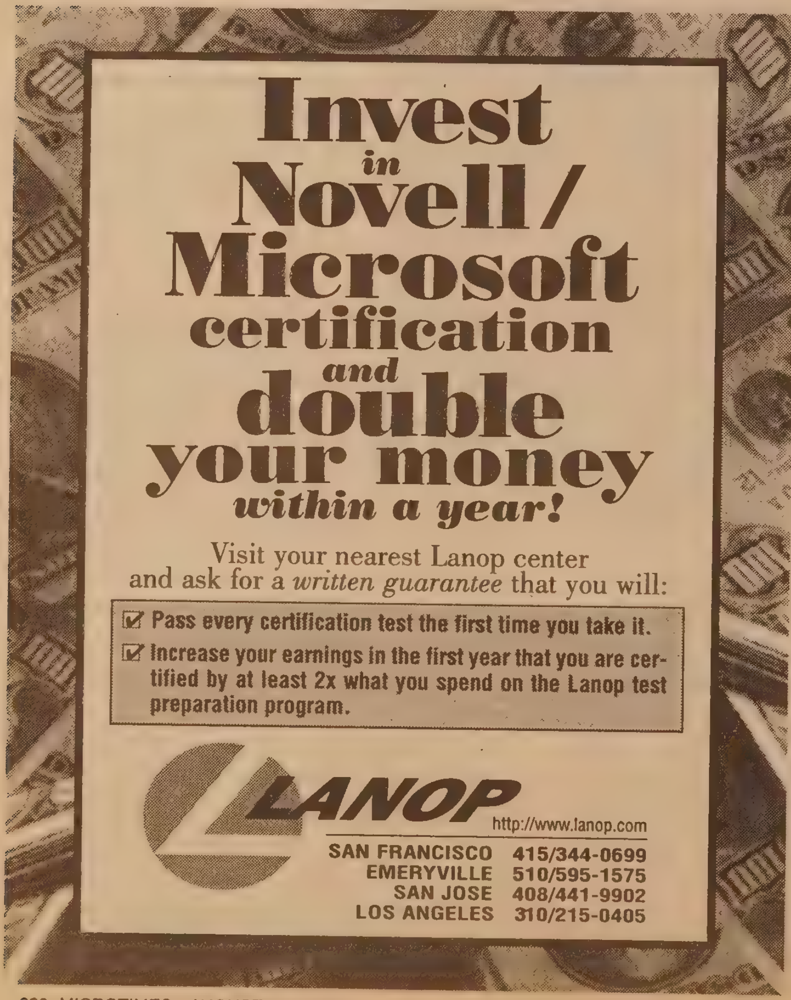

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The Flocking and Swarming controller is used to make particles flock toward a defined area, called the goal, and swarm around it. The momentum of the particles can affect the result in that the particles may fly past the goal, but will gradually reverse direction back toward the goal. Particles do not necessarily have to be inside a defined area to be affected by this controller, as, for example, with Force Field.

The Wind controller is used, says the manual, to "simulate particles caught in an air mass moving in a specified direction." You have the option of either defining a spherically shaped area of influence or you can have the controller affect all particles. You can adjust the strength of the wind, as well as add some amount of turbulence. You can also add a swirling effect. A tornado-like effect is easily achieved by using very high Swirl settings, a lot of particles, and motion blur.

With the Particle Shader controller, particle color can be changed throughout the particles' lifespan. Particle Storm uses a color bar where you assign specific colors at specific points in time. The bar then creates gradients as colors change from one to another. Color can also change when a particle collides with a Collision Detection object.

With a rocket jet, for example, you might want a bluer tint at one end, gradually changing to red and yellow. Using Collision detection, you can have water turn foamy white as it hits something.

The Drag controller sets a force that works directly against or for the velocity of a particle. A similar controller is Gravity, which can influence the speed as well as direction of particles.

POST PROCESS PLUG-IN

Particle Storm also includes a second plug-in that will apply particle motion to any object, light, bone, or the camera. Additionally, you can align the affected items to its path of motion and apply an adjustable spin motion.

DOCUMENTATION

The manual, despite being 180+ pages long, is marginal and should have included a lot more explanation. Explanations as to when you might use certain settings or a controller are often missing. Generally, you are left to your own exploration as to how parameters affect particle action.

The tutorials also include little explanation as to why things are being done. They simply tell you: load this, set this to that, click this, etc. The instructions are sometimes overly brief and require you to have a reasonable pre-understanding of how to use LightWave, as well as Particle Storm. Additionally, there are a few errors. As a result, you don't come away from the tutorials with as much understanding as there should be.

In any event, I was able to make my way through all of the tutorials with a little bit of determination. (The results of my efforts were usually stunning, at least.) The are also AVIs (and Perception video files) of the tutorials, so at least you know what the animation should eventually look like.

The Quality Control department must have been on vacation, as I

PARTICLE STORM *continued...*

found that none of the sample LightWave scenes loaded correctly. There are references to images and objects that don't exist and most of the time the Particle Storm data files don't load correctly. It kind of makes me wonder why they were included at all. If you are able to make it through the tutorials, though, it's not that much of a loss.

> *With the Particle Shader controller,* ***particle color can be changed throughout the particles' lifespan.***

OTHER GOODIES

The Particle Storm CD also includes some AVIs and Perception video clips demonstrating some of Dynamic Realities' other products, like Impact!. This utility allows you to apply real-world physics to LightWave scenes.

If you've ever attempted to do a good "walk cycle" in LightWave, you'd know it is very hard to keep feet from sliding around unnaturally. Lock & Key purportedly eliminates this, as well as the dreaded gimbal lock.

Shaderman is a collection of procedural textures, including veined marble, wood, plastic, metal, matte, and wireframe shaders.

Finally, there is Stripper. LightWave scenes can be a pain to transport if you don't save all of the scene files, objects, images, etc., in one place. This little utility bundles everything together and archives them into a single ZIP file, and could be a useful tool.

SUMMARY

Due to the complexity of the program, combined with the marginal manual and tutorials, beginners and novices may want to stay away from this one, even though it is a great plug-in. However, once you come to grips with its operation, you can create amazing animations with LightWave. Once you get over the steep learning curve, Particle Storm ends up being quite easy to use and extremely flexible. ■

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RESOURCES:

Particle Storm
$395 Intel, $495 DEC Alpha/MIPS
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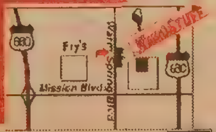

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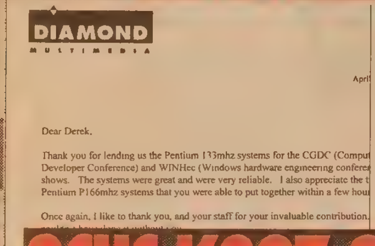

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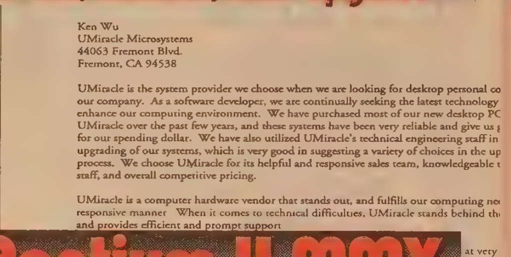

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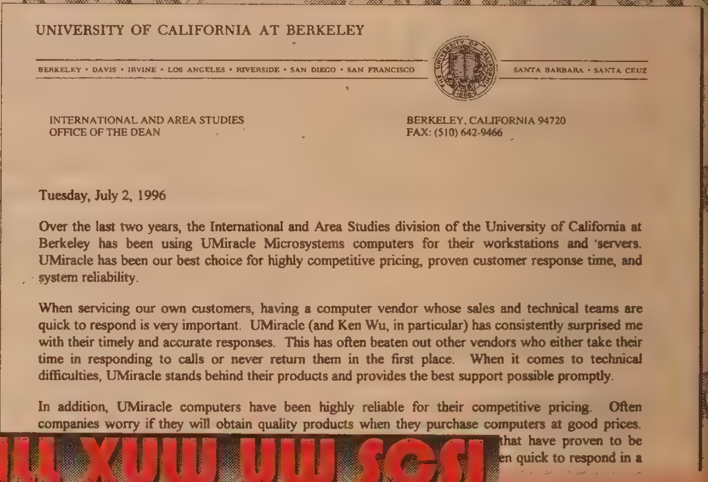

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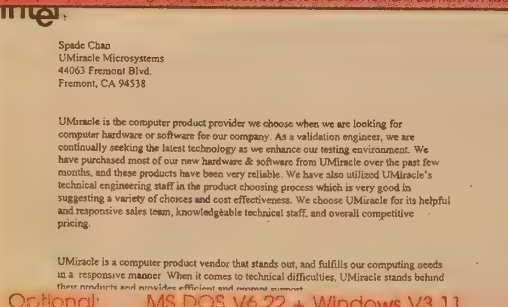

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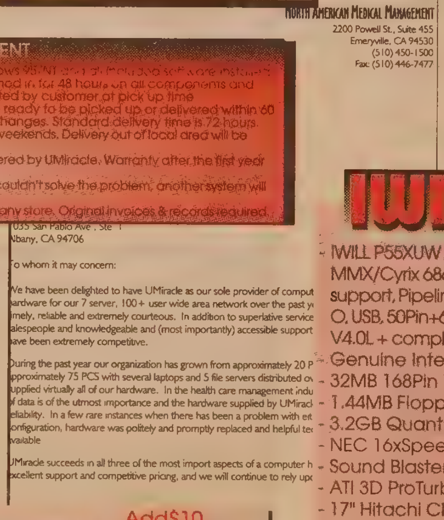

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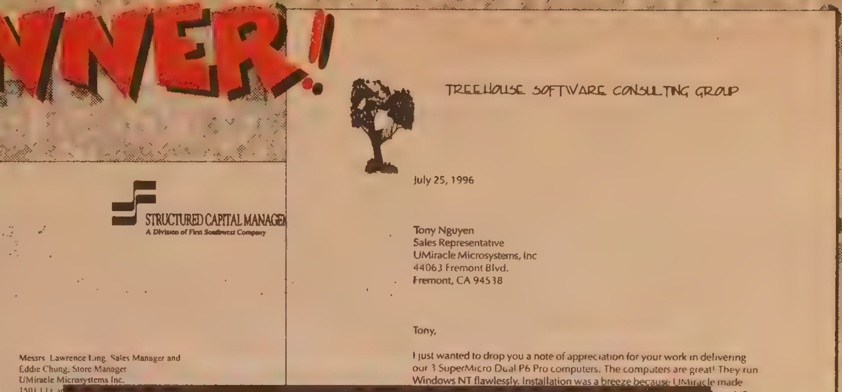

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- 3 x Type II or 1 x Type II+1 x Type III (Support Zoom Video Port)
- Modem Ring in wake up on Power Mgmt
- Built-in 1MB Mask ROM hardware wavetable
- Removeable Floppy & hard drive
- Infra-red IrDA and FIR
- RCA jack for TV-Out
- Windows 95 Keyboard

FD replaceable w/2nd Battery
Upto 64MB EDO memory
Large 12.1" Active Color
Built-in 11x CD ROM
RCA Jack for TV Output
Lithium-Ion Battery Included

Large 13.3" Active Color
Video Capture Port Built-in
Lithium-Ion Battery Included

FD Replaceable w/2nd Battery
Upto 80MB Main Memory

CHEM 9750 SPECIFICATIONS

- Intel Pentium 120/133/150/166/200MHz/MMX
- 13.3" TFT XGA/12.1" TFT SVGA
- 16MB Memory onbrd, expand upto 80MB
- 800x600x16M True Colors, 2MB Video RAM
- 64bit PCI bus graphics accelerator
- SystemSoft Flash BIOS with PnP
- 10Xi CD ROM, exchange w/FDD or Battery
- 16Bit Stereo Sound System
- Pipelined Synchronous 256K Level-2 Cache
- Infra-red IrDA and FIR
- Video Capture port
- Windows 95 Keyboard

CHEM BOOK 9750

CHEM BOOK 6800

CHEMBOOK 6800 ■ P5 CPU ■ Active 12.1" ■ 16MB EDO 144Pin ■ 256K L2 P.B. Cache ■ 1.44FD ■ 11X CDROM ■ 2MB EDO Video ■ TouchPad ■ 16Bit Stereo Sound ■ RCA Jack ■ 1S/1P ports ■ Li-ion Batt ■ InfraRed port ...

Active Matrix 12.1"	(1.4/2.1/3.0GB HD)
■ Pentium-133Mhz	$2172/$2280/$2496
■ Pentium-166Mhz	$2213/$2321/$2537
■ Pentium-200Mhz	$2356/$2464/$2680

CHEM 6800 NoteBook Options

16MB=16x1 144Pin EDO	$105
32MB=32x1 144Pin EDO	$195
Auto Adaptor 12V	$75
AC Adaptor	$80
Li-ion Internal Battery	$215
Battery Charger	$95
Port Duplicator	$120

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UMiracle Microsystems

- Free Local Area Delivery for System Purchase
- 1 Year Parts + Life Time Upgrade Labor Warranty on Systems
- Expertise Technical Support On Duty Daily
- 30 Day Compatibility Guarantee on Complete Systems

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What is RAID?

RAID is an acronym for Redundant Array of Inexpensive (or Independent) Disks. A RAID array is a collection of drives which collectively act as a single storage system, which can tolerate the failure of a drive without losing data, and which can operate independently of each other. Among all RAID implementations, RAIDport, the latest Adaptec RAID 5 solution, is the most cost-effective way to protect your data. If the data in your file server is vital to your survival of your business, RAID-5 is the way to go!

RAID-5 Pentium Pro² Server

- IWILL DP6NS Dual Pentium® Pro processor-based board w/Built-in Adaptec® PCI SCSI chipset 7880 (AHA-2940UW Ultra Wide SCSI), 50Pin Fast SCSI-2 & 68Pin Ultra Wide SCSI (40MB/s Burst) with optional RAID support, Intel 440FX chipset, ZIP Socket 8, 150-233Mhz, 3 PCI+4 ISA slots, FP or EDO 72Pin SIMM & support upto 512MB, built-in PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP, 50pin SCSI + 68pin Wide SCSI + FD/HD/IO cables, PS/2 mouse port & EZ-SCSI V4.0L + complete Adaptec® software driver & manual included
- Adaptec AAA-131 RAID 5 Ultra-Wide Adapter with 1MB Cache onbord
- Genuine Intel Pentium® Pro Processor(s) w/ Cooling Fan(s)
- 32MB=16MBx2 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- NEC 16XSpeed IDE 2400KB/S CD-ROM
- Four 3.2GB Quantum FireBall ST33240S Ultra-SCSI-2 HDs
- Trident 9680 PCI 1MB MPEG+AVI Video Card
- 14" ShamRock 1Kx768NI Pwr-Saving Monitor
- GigaStar ATX style Full Tower 235W ATX PS
- KeyTronic 104 Key Win95 PS/2 Keyboard
- MicroSoft Ergonomic Serial Mouse w/ Pad

[illegible] Server CD
[illegible]

P6² is here!

	Single	Dual
150MHz 256k	$3461	$3768
180MHz 256k	$3602	$4049
200MHz 256k	$3702	$4249
200MHz 512k	$4263	$5372

RAID-5 AMI Quad P6

- AMI (American Megatrends, Inc) Goliath Quad Pentium® Pro Processor EISA/PCI motherboard - U.S. designed & made 180/200MHz (or higher) 1/2/4 processors supported, easy processor upgrade thru CPU based board approach, 1GB memory max onboard with 168pin slots, 4 way Interleave structure for max performance ECC supported, 168Pin DIMM supported, Intel 82450GX chipset, AMI Green Flash BIOS, 6 PCI + 4 EISA slots, Integrated I/O w/ 1P/2S/FD/2 PCI IDEs/PS2 mouse
- Genuine Intel Pentium® Pro Processor(s) w/ Cooling Fan(s)
- 64MB=32MBx2 168Pin 4Mx72 EDO ECC Buffered DIMM
- 1.44MB Floppy Drive
- NEC 16XSpeed IDE 2400KB/S CD-ROM
- Mylex DAC960PU/1 RAID-5 Ultra-Wide SCSI-3 PCI Controller with 8MB parity cache memory for speedy performance
- Five 3.2GB Quantum FireBall ST33260S Ultra-SCSI-2 HDs
- Trident 9680 PCI 1MB MPEG+AVI Video Card
- 14" ShamRock 1Kx768NI Pwr-Saving Monitor
- Heavy-Duty Server Case Model LT-18 supporting 11 drive bays, 26"x10"x25", removable front & side doors, Lockable front door for security, "snap-in" drive mounts, swing-out feet
- 400W AT Size Power Supply special-designed for AMI Goliath with 12V/5V/3.3V DC output
- KeyTronic 104 Key Win95 PS/2 Keyboard
- MicroSoft Ergonomic Serial Mouse w/ Pad

[illegible]

P6⁴ is here!

ULTRA WIDE
40MB/S Ready!!!

Intel Pentium® Pro

Dual 200MHz 256/512k
$9439/$10598

Quad 200MHz 256/512k
$11746/$14063

LOOKING FOR YOUR DREAM MACHINE AT THE CHEAPEST PRICE? SHOPPING FOR A PC IN THIS RAZOR-THIN-PROFIT INDUSTRY IS DANGEROUS BECAUSE 70% OF THE DEALERS WON'T LIVE TILL THE FOURTH YEAR IN BUSINESS, MOST SELL 3 OR 4 MACHINES A WEEK WITHOUT KNOWING WHAT THEY ARE SELLING AND 99% DON'T WANT TO SEE ANY MACHINE COMING BACK AFTER YOU WALK OUT OF THE DOOR. AT UMIRACLE, WE BUILD HUNDREDS OF PC'S EVERY WEEK, WE TEST EVERY POSSIBLE COMBINATIONS OF SOFTWARE AND HARDWARE FOR COMPATIBILITY, AND WE STAND BEHIND YOUR PC'S LIFETIME LONG! WHY? BECAUSE WE LOVE YOUR PC AS MUCH AS YOU DO! COME BY AND VISIT ONE OF OUR STORES AND YOU WILL FIND OUT WHY YOU WILL BE THE WINNER!

Tahoe II Pentium II

- TYAN Tahoe-2 ATX S1682D Dual Pentium II 233-300 MHz System Board, - 5 PCI + 3 ISA Slots, 8 72Pin SIMM for Max 512MB, Onbrd Super IO/FD/IDEs/USBs/PS2, Flash Award BIOS
- Intel Pentium® II CPU(s) w/ Cooling Fan(s)
- 32MB=16MBx2 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- Adaptec 2940U Fast PCI Ultra SCSI-2 Controller
- Three 3.2GB Quantum FireBall ST33260S Ultra-SCSI-2 HDs
- NEC 16XSpeed IDE 2400KB/S CD-ROM
- Trident 9680 PCI 1MB MPEG+AVI Video Card
- 14" ShamRock 1Kx768NI Pwr-Saving Monitor
- GigaStar ATX style Medium Tower 235W ATX PS
- KeyTronic 104 Key Win95 PS/2 Keyboard
- MicroSoft Ergonomic Serial Mouse w/ Pad

Legitimate MS Windows NT v4.0 [illegible] Server CD
+ Manual installed + fully configured

Single Pentium II
233MHz $2957
266MHz $3089

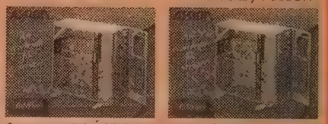
Dual Pentium II
233MHz $3580
266MHz $3846

NT ENHANCEMENTS

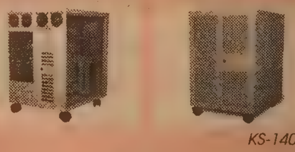
NT Guaranteed! All hardware listed below are guaranteed to be NT [illegible] compatible. We will make it right or your money back.

- ■ Memory
- 16/32/64/128MB 10ns SDRAM UnBuffered 168Pin DIMM for 430VX/TX .... $Call
- 16/32/64/128MB 60ns DRAM ECC EDO Buffered 168Pin DIMM for 440FX .... $Call
- ■ RAID 5 Fast Ultra Wide SCSI-2 Host Adapter
  (for RAID-5 implementation, an IDE HD as boot drive is recommended)
- *DPT SmartCache IV SCSI Adapter & RAID Series/SmartRAID IV RAID Series .... $Call*
- *Mylex DAC960 Series Hi-Performance PCI RAID Controller with upto 3 UW SCSI channels supporting 45 HDs, upto 64MB Cache installable .... $Call*
- *AMI Complete MegaRAID Solution Including:SCSI RAID level 0,1,3,5,10,30, and 50 PCI Disk Array Controllers/FlexRAID/Advanced Management Software/Advanced Enclosure Management/Boot-Up Configuration/Power Console/General Alert .... $Call*
- ■ TapeDrive - HP DAT DDS/DDS-2 Drive (Sold & Integrated with system only)
- *HP DAT C1534 DDS DAT Tape Drive (2GB on 90m Tape) $540*
- *HP DAT C1536 DDS DAT Tape Drive w/DCLZ Hardware Compression (4GB on 90m Tape with compression) $605*
- *HP DAT C1599A DDS-2 DAT Tape Drive w/DCLZ Hardware Compression (8GB on DDS-2 format with compression) $779*
- *HP DAT C1553A DDS-2 Autoloader w/DCLZ Hardware Compression (48GB on DDS-2 format with compression) $2010*
- *Seagate 32GB DAT DDS-2 Autoloader 4586NP (4 DAT Tape Support) $1235*
- *Optional 12 Tape Magazine for above 4586NP upto 96GB (no tape) $135*
- ■ High End Video Card - 3D Rendering/Graphic Animation/OpenGL
- *Symmetric GLyder MAX/TX-16/TX-40/MP-40 3D Accelerator .... $520/$1790/$2245/$2520*
- *Dynamic Pictures OpenGL Accelerator Oxygen102/202/402 .... $985/$2075/$3655*
- ■ Server Chassis (T-101)/Disk Array Chassis (T-103): Dimension=13"x31"x22" w/Dual Redundancy & Hot Swappable Power Supplies .... $880/$880
- *T-101: 12 DriveBays/Upto 2 PowerSupply 2x300W*
  2x4.6" Smart Fans w/ Efficient Air Flow
  Full Size AT Motherboard FormFactor
- *T-103: 16 DriveBays/Upto 2 PowerSupply 2x300W*
  2x4.6" Smart Fans w/ Efficient Air Flow
  Perfect RAID Disk-Array Sub-Chassis

- ■ Server Chassis LT-18 By Axxion w/o Power Supply.....$480
- *Full-size AT, Baby AT, oversize AT based boards, 11 drive bays (one 3.5" and four 5.25" exposed, six 5.25" hidden bays), Twelve slots, "snap-in" drive rails, secondary cooling fans, accepts standard power supply.*
  Dimensions: 26" x 10" x 24.5" (DxWxH),


LT-18 by Axxion

- ■ Server Enclosure KS-1400 w/ Dual Redundant Hot-Swappable 300Wx2 PS.....$990
- *Full-size AT, Baby AT, oversize AT based boards, 14 5.25" drive bays, Twelve slots, "snap-in" drive rails, 8 cooling fans,*
  Dimensions: 20.5" x 16.25" x 23.75" (DxWxH)


KS-1400

- ■ CD-ROM Tower Subsystem Chassis
- *7 Plextor 20X PX-20TSI w/250W PS........ $2039*
- *7 Toshiba 15X XM-3801B w/250W PS ... $1255*
- *7 Toshiba 12X XM-5701B w/250W PS ... $1085*
- ■ UPS Un-Interrupted Power Supply
- *APC SmartUPS 420VS 420VA 4 minute Full 9 Minute Half load 4 outlets $269*
- *APC SmartUPS 650VS 650VA 5 minute Full 11 Minute Half load 4 outlets $325*
- *APC SmartUPS 1000VS 1000VA 6 minute Full 15 Minute Half load 6 outlets $455*
- *APC SmartUPS 1400VS 1400VA 7 minute Full 19 Minute Half load 6 outlets $599*

Compatibility Guaranteed

Windows NT 4.0 Server/Workstation

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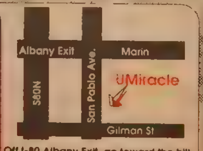
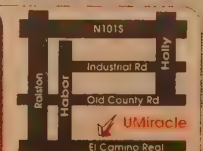


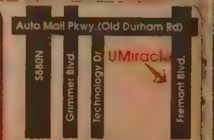
Off I-80 Albany Exit, go toward the hill and turn right on San Pablo Avenue. We are facing U.C. Village. Or off I-80 Gilman St, go toward the hill and make a left turn on San Pablo Ave.

Belmont Store
Ph:415-592-3333
1501 El Camino Real #E
Belmont CA 94002
[illegible]



From north or south, Off I-101 Ralston Ave, go towards west, left on El Camino Real and make a U-turn ASAP. We are on your right.

Fremont Main
Ph:510-226-3666
[illegible]



Off I-880 Auto Mall Pkwy East, pass Technology Drive and make a right on Fremont Blvd. (or off 680 Durham, go west, pass Osgood Rd, then make a left on Fremont Blvd.) first driveway on your right.

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Motherbo[illegible]

A-BIT Office Pro PX-5 Jumperless 512K TX-chipset Motherboard Pentium 75-200Mhz/Cyrix® 686-200+/AMD K5/K6 DIMM+SIMM supported, 4 PCI+4 ISA slots, onbrd PCI-IDE, HiSpd I/O, FD, Flash BIOS w/ OverClock Setting AT Form	$117
A-BIT Office Pro AX-5 Jumperless 512K TX-chipset Motherboard same as above but in ATX Form	$127
ASUS TX97 Pentium® processor-based board - 430TX PCISet, Pipelined 512K onbrd, 75-200Mhz Pentium/MMX/AMD/Cyrix200+ CPUs, 4 PCI+4 ISA+1 ASUS MediaBus slots, 168Pin DIMMx3 support, onbrd Ultra-IDE, FD, HiSpd I/O, Flash Award BIOS w/NCR SCSI Suppt, AT form factor	$150
ASUS TX97-E same as TX97, plus 72PinSIMMx4 support	$155
ASUS TX97-X Pentium® processor-based board - 430TX PCISet, Pipelined 512K onbrd, 75-200Mhz Pentium/MMX/AMD/Cyrix200+ CPUs, 4 PCI+4 ISA slots, 168Pin DIMMx3 support, CreativeLabs VIBRA PnP Audio, onbrd Ultra-IDE, FD, HiSpd I/O, USB, Flash Award BIOS w/NCR SCSI Suppt, ATX form factor	$187
ASUS TX97-XE same as TX97X, plus 72PinSIMMx4 support	$189
ASUS KN97-X Pentium II processor-based board - 233-266MHz Supported, 440FX Chpst, 3 ISA+5 PCI Slots, 512K Cache on Pentium II CPU Cartridge, 1 DIMM+4 SIMM Slots, Onboard Super I/O/FD/IDEs/USBs, PnP Audio w/ Creative Labs Vibra 3D, ATX form, Award BIOS	$255
Intel Tucson TC430HX Pentium® processor-based Board - 430HX PCISet, Pipelined 512K onbrd, 75Mhz & up MMX CPU support, 4 PCI+3 ISA slots, 72Pin SIMM support upto 128MB, onbrd PCI-IDE, FD, HiSpd I/O, USB, Flash AMI BIOS, Built-in Yamaha OPL3 FM Synthesizer stereo sound w/line-in/out, Joystick, WaveTable connector, ATX form factor	$160
Intel Anchorge AN430TX Pentium MMX motherboard - ATI Rage®II+ graphics with 2 MB of SGRAM, Yamaha OPL4 hardware wavetable audio, 512K Cache, 430TX chpst, 3 ISA+3 PCI slots, onbrd PCI-IDE, FD, I/O, PS/2 connectors, Flash AMI BIOS, 168Pin DIMM support upto 256MB, ATX form factor	$258
Intel Venus Performance/VS Pentium® Pro processor based motherboard - 440FX chpst, 150/180/200Mhz/future CPU support, 3 ISA+4 PCI slots, onbrd PCI-IDE, FD, HiSpd I/O, PS/2 mouse + kybrd connectors, Flash AMI BIOS, 72Pin SIMM support upto 256MB, ATX form factor	$138
Intel Providence PR440FX Dual Pentium® Pro processor-based board - Intel 440FX PCISet, support Dual Pentium® Pro CPUs w/VRM, ECC EDO buffered 168Pin DIMM upto 512MB, Integrated LAN Controller Intel 82557 (=EtherExpress® Pro/100B), Integrated UltraWide SCSI Adaptec® 7880 w/onbrd + External mini-68Pin Wide Connector, Integrated Audio - Crystal+Yamaha OPL3 FM Synthesizer 16bit StereoSound, 4 PCI+1 ISA slots, onbrd PCI Bus Master IDE ports, HiSpd I/O, FD, Dual ZIF Socket 8, Flash AMI PnP BIOS	$520
Intel Portland PD440FX Pentium II ATX Motherboard - Boxed version, 233-266MHz Supported, 440FX Chipset, 3 ISA+3 PCI Slots, 512K Cache on Pentium II CPU Cartridge, 4 72Pin SIMM Slots, Onboard Super I/O/FD/IDEs/ PnP Yamaha POL3 Integrated Audio	$265
IWILL P55XUW PCI Pentium® processor-based ATX board w/ Built-in Adaptec® PCI SCSI chipset 7880 (AHA-2940UW UltraWide SCSI), Intel 430TX chpst, MMX/Cyrix 686 CPU support, 50Pin Fast SCSI-2 & 68Pin Ultra Wide SCSI (40MB/s Burst) with optional RAID support, Pipelined 512K Cache onbrd, 3 PCI+4 ISA slots, 72Pin SIMM & 168PIN DIMM, onbrd UltraDMA IDE ports, FD, HiSpd I/O, USB, 50+68Pin Wide SCSI + FD/HD/IO cables, Musical alarm CPU fan, PS/2 mouse port & EZ-SCSI V4.0L + Adaptec® software & manual included	$305
IWILL DP6NS Dual Pentium® Pro processor-based board w/Built-In Adaptec® PCI SCSI chipset 7880 (AHA-2940UW UltraWide SCSI), 50Pin Fast SCSI-2 & 68Pin Ultra Wide SCSI (40MB/s Burst) with optional RAID support, Intel 440FX chpst, 150-233Mhz, 3 PCI+4 ISA slots, 72Pin SIMM support upto 512MB, onbrd PCI-IDE ports, FD, HiSpd I/O, 50Pin SCSI + 68Pin Wide SCSI + FD/HD/IO cables, PS/2 mouse port & EZ-SCSI V4.0L + complete Adaptec® software driver & manual	$510
IWILL PIINS Pentium II processor-based board - 233-300MHz Supported, 440FX Chipset, 4 ISA+4 PCI Slots, 512K Cache on Pentium II CPU Cartridge, 8 SIMM Slots upto 1GB, Onboard Super I/O/FD/IDEs/USBs, Built-in Adaptec® PCI SCSI chipset 7880 (AHA-2940UW UltraWide SCSI), 50Pin Fast SCSI-2 & 68Pin Ultra Wide SCSI (40MB/s Burst) with optional RAID support, ATX, Award BIOS	$410
TYAN Tahoe-A ATX S1684SA Pentium II 233-300 MHz System Board - 4 PCI + 4 ISA Slots, 6 72Pin SIMM for Max 512MB, Integrated Creative Labs Vibra 16 Audio, Onbrd Super IO/FD/IDEs/USBs/PS2, Flash Award BIOS (Also supports Pentium Pro CPU with optional Riser Card)	$285
TYAN Tahoe-2 ATX S1682D Dual Pentium II 233-300 MHz System Board - 5 PCI + 3 ISA Slots, 8 72Pin SIMM for Max 512MB, Onbrd Super IO/FD/IDEs/USBs/PS2, Flash Award BIOS (Also supports Pentium Pro CPU with optional Riser Card)	$335
AMI (American Megatrends, Inc) Goliath Quad Pentium® Pro Processor EISA/PCI motherboard - U.S. designed and made 180/200MHz (or higher) 1/2/4 processors supported, easy upgrade thru CPU based board approach, 1GB memory max onboard with 168 pin slots, 4 way Interleave for max performance, ECC support, 168Pin DIMM support, 82450GX chpst, AMI Flash BIOS, 6 PCI+4 EISA slots, integrated I/O w/ 1P/2S/FD/IDE, Full Size AT form factor	
Above w/ two 200MHz Pentium Pro 256K CPUs	$5230
Above w/ four 200MHz Pentium Pro 256K CPUs & 2nd CPU baseboard	$7855

CPU & Memory (Prices Subject to Change without notice)

Intel Pentium® Pro processor 256K/512K 150/180/200Mhz	$Call
Intel Pentium® II processor 233MHz/266MHz 512K Cache	$Call
Pentium® P5-100/120/133/150/166/200MHz/MMX CPU	$Call
AMD® 486-100DX4/120DX4/5x86-133DX4/K5/K6	$Call
Cyrix®/IBM® 6x86-120+/150+/166+/200+ CPU	$Call
256/512K Synchronous Pipelined Cache COAST module	[illegible]
72Pin SIMM - 32/36Bit-FP/EDO/Parity	$Call
16/32/64MB 168Pin SDRAM DIMM Unbuffered 12ns for Triton VX/TX board	$Call
32/64/128MB 168Pin EDO DRAM DIMM w/ECC Buffered 60ns for PR440FX Providence/AMI Goliath motherboard	$Call

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I/O Card/Controller Card

Adaptec 2940U Ultra SCSI-2/2940UW SCSI-2 Controller	$180/$210
Adaptec AAA-131/AAA-133 RAID 5 Ultra-Wide SCSI-2 Multi-Channel Host Adaptor w/1MB Cache onbrd	$360/$795
Western Digital PCI-SCSI Adapter - 7193RTL, Fast SCSI-2, 10MB/s, CorelSCSI!	$85
External SCSI-2 50Pin Mini-68Pin Adapter for any onboard internal 50pin ribbon cable SCSI interface	$20
External Wide SCSI Mini-68Pin Adapter with 3-68pin-connector internal ribbon cable for any onboard internal 68pin Wide SCSI interface	$45
Fast Wide SCSI-2 internal Ribbon Cable, 68Pin, 2 / 3 connectors	$20/30
External SCSI Cables/Terminator Centronic/Mini/UltraDensity 50/68Pin	$Call

Network Card

Ethernet NE2000 ISA PnP/Softset 16Bit Combo	$25
Intel EtherExpress Pro 10/100 PCI ENET 32Bit 10-BT (PILA8465B)	$65
3COM Etherlink III 3C509B Combo	$75
3COM Etherlink XL 3C900 Parallel-Tasking PCI Combo	$78
3COM Fast Etherlink XL 3C905-TX Parallel-Tasking 100BT PCI	$65

Video Card

Trident 9680 Windows Accelerator PCI 1MB/2MB with MPEG and AVI Motion Video built-in	$35/45
Diamond Stealth 3D 2000XL PCI 4MB EDO-DRAM	$80
Diamond Stealth 3D 3000XL PCI 2MB/4MB VRAM	$110/$150
ATI 3D ProTurbo PC2TV SGRAM 4MB/8MB	$135/$180
ATI All-In-Wonder 7-in-One TV, Video and Graphic multimedia, PC or TV Display, TV Tuner, w/ ATI's 3D RAGE II and ImpactTV chipset 4MB	$265
Matrox MGA Millennium II WRAM PCI 4MB/8MB	$250/$325
Memory module for Millennium II 4MB/8MB	$135/$215
Matrox MGA Millennium 2MB/4MB WRAM PCI	$150/$185
Memory module for Millennium 2MB/4MB/6MB	$90/$135/$210
Matrox MGA Mystique 2MB/4MB SGRAM	$98/135

Monitor

14" ShamRock 1Kx768NIx0.28DP Digital Control Pwr-Saving Monitor	$160
15"/17" ShamRock 1280x1KNIx0.28DP Monitor	$230/$445
Hitachi NSA SuperScan Pro CM-500U 15" .28DP, 1280x1024	$315
Hitachi NSA SuperScan Pro CM-620U 17" .28DP, 1280x1024	$525
Hitachi NSA SuperScan Pro CM-751MU 19" .22DP, 1600x1200	$1045
Hitachi NSA SuperScan Pro CM-2011MU 20" .28DP, 1600x1200x66Hz	$1135
Hitachi NSA SuperScan Pro CM-800U 21" .22DP, 1600x1200x75Hz	$1355
Hitachi NSA SuperScan Elite CM-630U 17" .22DP, 1600x1280x69Hz	$695
Hitachi NSA SuperScan Elite CM-802U 21" .22DP, 1600x1280	$1[illegible]90
Hitachi NSA SuperScan Elite CM-803U 21" .22DP, 1800x1440 77Hz	$1890
IIYAMA VisionMaster-17 MF-8617E 17" .26DP, Microprocessor Contrl, PnP, DPMS, MPRII, Full On-screen program, 1600x1200@69Hz	$548
IIYAMA VisionMaster-Pro 17 MT-9017E 17" .25DP, Microprocessor Contrl, PnP, DPMS, MPRII, Full On-screen program, 1600x1200@72Hz, Trinitron Tube	$625
IIYAMA VisionMaster MF-8221E 21" .22x.16DP, Microprocessor Contrl, PnP, DPMS, MPRII, Full On-screen program, 1600x1200@76Hz	$1245
IIYAMA VisionMaster MT-9021E 21" .30x.00DP, Microprocessor Contrl, PnP, DPMS, MPRII, Full On-screen program, 1600x1200@76Hz, Trinitron Tube	$1325
Sony 15" 100SX/100SF 17" 200SX/200SF/17SE2T	$339/$375/$629/$725/$850
Sony 20" 300SFT/GDM20SE2T	$1549/$1810
Viewsonic E641/E655/15GA/15GS/17EA/17GA/17PS/PT770/PT775/GT770/G800/G810/PT813/G810/GT800/29GA/P810/P815	$Call
Mitsubishi, NEC, ADI, Nokia	$Call

Modem

SupraExpress 33.6K Voice Fax internal PnP	$65
USR Sportster 33.6K Faxmodem Internal/External	$105/$155
USR Sportster 33.6K Voice Faxmodem w/Voice Internal	$120
USR Sportster x2-56K Faxmodem Internal/External	$155/$195
USR Sportster x2-56K Voice Faxmodem w/Voice Int./Ext	$180/$215

Floppy Drive/Tape Backup

Floppy Drive 1.44M 3.5"/Teac 1.2M 5.25"/1.44M 3.5"	$24/[illegible]/27
Colorado 3.2GB T-3000 off floppy Travan w/Win95 Sftwre, w/tape	$179
Colorado HP T4000S 8GB, 62MB/min, SCSI-2, Travan TR-4, internal, w/tape	$359
Seagate 4586NP SCSI-2 DAT DDS-2 Autoloader supports 4 - 120m 4MM DAT tapes for 32GB, optional 12 tape magazine for 96GB	$1235
Optional 12 tape magazine for above	$135
Iomega ZIP Drive 100MB w/disk ATAPI IDE -Internal	$125
Iomega ZIP Drive 100MB w/disk SCSI-Internal/External	$145/$155
Iomega ZIP Drive Disks single/three/ten pack	$15/$40/$130
Iomega Jaz Drive 1GB w/disk SCSI-Internal/External	$299/$402
Iomega Jaz Drive Disks single/five pack	$92/$445
Iomega Ditto TapeBackup 2GB Insider Tavan TR-1,2,3	$145
Iomega Ditto TapeBackup 2GB Parallel External TR-1,2,3	$188
Iomega Ditto TapeBackup 3200 Insider 3.2GB Tavan QIC w/o tape	$205
Iomega Ditto TapeBackup 3200 Parallel Port 3.2GB Tavan QIC w/o tape	$255
Tape Cartridge TR-1/TR-3/TR-4/DAT	$32/$35/$45/$Call

[illegible]/Chassis/PowerSupply/Misc

Mitsumi 104 Enhanced Win95 Keyboard	[illegible]
KeyTronic 104 Enhanced Win95 Key U.S. Made	[illegible]
Focus 2001 104 Win95 Key Enhanced Click w/Cover	[illegible]
Focus 6002 104 Win95 Key Enhanced w/ wristrest	[illegible]
Natural Keyboard SK-6000 Win95 Key Enhanced / with Touch Pad	$50/$70
MicroSoft Natural Keyboard Win95 Key	$70
MicroSoft Ergonomic Serial/PS 2 type	[illegible]
Logitech 2-Button Mouse Serial/PS2	$12/$1[illegible]
Logitech Mouseman Serial+PS 2 Combo/Cordless	$30/$35
Logitech Trackman Marble	$80
MS DOS 6.22/Windows V3.11/WFWG V3.11(w/System Purchase)	$45/55/75
MS Windows 95 Full CD OEM version	$9[illegible]
MS Office Professional 97 CD version	$325
MS Windows NT V4.0 Workstation	[illegible]
MS Windows NT V4.0 Server with 5 User Access License OEM	[illegible]
MS Windows NT V4.0 Server 20 User Access License (No Software)	[illegible]
GigiStar Series Full Tower AT 250W/ATX 230W	$110/$1[illegible]
GigiStar Series Medium Tower AT 250W/ATX 230W	$85/$90
GigiStar Series Mini Tower/DeskTop AT 230W	$50/$55

Server Class Super Case w/250W PS w/ detachable front panel, Dual side door, solid construction, slide-in Drive Bay, Dual fans, lots of bays, Fits Full/Baby AT Size board, Medium/Full Tower	$115/$140
Server Chassis (T-101)/Disk Array Chassis (T-103): Dimension=13"x31"x22" w/Dual Redundancy & Hot Swappable Power Supplies:	
- T-101:12 DriveBays/Upto 2 PowerSupply 2x300W, 2x4.6" Smart Fans w/ Efficient, Air Flow, Full Size AT Motherboard FormFactor	$880
- T-103: 16 DriveBays/Upto 2 PowerSupply 2x300W, 2x4.6" Smart Fans w/ Efficient Air Flow, Perfect RAID Disk-Array Sub-Chassis	$880
Server Chassis LT-18 By Axxion w/o Power Supply - Full-size AT, Baby AT, oversize AT based boards, 11 drive bays (one 3.5" and four 5.25" exposed, six 5.25" hidden bays), Twelve slots, "snap-in" drive rails, second cooling fans, accepts standard power supply, Dims: 26" x 10" x 24.5"	$480
Server Enclosure KS-1400 w/ Dual Redundant Hot-Swappable 300Wx2 PS, Full-size AT, Baby AT, oversize AT based boards, 14-5.25" drive bays, Twelve slots, "snap-in" drive rails, 8 cooling fans, Dims: 20.5" x 16.25" x 23.75" (DxWxH)	$990
Deluxe External SCSI Case w/Terminator+SCSI Cable+P/S+Fan 3.5" Half Height/5.25" Half Height	$60/$90
Deluxe External SCSI Case w/68Pin Wide/Ultra Wide SCSI Connector + P/S + Fan 3.5" Half Height with 68Pin External Cable and Terminator	$15[illegible]
Power Supply PS-2 Type 230W/250W/300W	$29/$35/[illegible]
Power Supply ATX Type 235W/300W	[illegible]
486/P5/P6 CPU Cooling Ball-Bearing Fan w/heat sink	[illegible]
Chassis Second Cooling Fan 3" or 3.5"	$15
Printer Cable 6'/10'/15'/25'	[illegible]
PS/2 mouse port connector for motherboard PS/2 mouse port	[illegible]

CD-ROM Drive

Toshiba XM-6102B 24X Speed Internal ATAPI IDE CD ROM	[illegible]
Panasonic CR585 24X Speed Internal ATAPI IDE CD-ROM	[illegible]
Sony CDU511 16X Speed Internal ATAPI IDE CD-ROM	[illegible]
NEC 16X Speed Internal ATAPI IDE CD ROM	[illegible]
Mitsumi FX1600 16X Speed Internal ATAPI IDE CD-ROM	[illegible]
Mitsumi FX800 8X Speed Internal ATAPI IDE CD-ROM	[illegible]
Toshiba XM-5701 12X Speed Internal SCSI CD ROM	[illegible]
Toshiba XM-3801B 15X Speed Internal SCSI CD ROM	[illegible]
Plextor 20-Plex 12/20XSpeed, 1800-3000Kb/sec, Fast SCSI2, 95ms seek, 512K Buffer, SCAM, w/Tray, PX-20TSI internal	[illegible]
Philips CDD2600 SCSI-2 CD-ROM Writer 1MB Cache, 2X record & up [illegible] w/SCSI Controller, Corel CD Creator, 2 blank CDs internal/External	$490/$595
Yamaha CD-ROM Writer CDR400TIPC/CDR401TIPC 512KB Cache, up to 4X record & 6X read, internal bare version w/Software SCSI2/IDE	$750/$760
Ricoh CD-ReWritable and Recordable Drive SCSI-2 2xWrite/6xRead, Internal, w/ Adaptec Controller, Direct CD UDF packet writing software + Seagate Backup Exec and Easy CD Pro Suite for 95	$595

Sound Card/Speaker/MultiMedia Package

Yamaha, Altec, Lansing Speakers	[illegible]
60W/80W/120W Hi-Fi Ampilfied Stereo Speakers	[illegible]
Sound Blaster Compatible 16Bit ESS Stereo w/PnP, IDE port	[illegible]
Sound Blaster 16 PnP OEM	[illegible]
Sound Blaster 32 PnP OEM	[illegible]
Sound Blaster AWE64 PnP w/ IDE Interface Retail	[illegible]
Sound Blaster AWE64 GOLD PnP w/ IDE interface Retail	$180
Digital Video Conference Kit - 24bit color camera, PCL Capture Card, 100% iVision Compatible. Complete Software + driver for 95	[illegible]
Audio Cable - CD-ROM to Sound Card	[illegible]

Hard Disk

Western Digital - Caviar

1.2GB IDE WDAC11200 - Enhanced IDE Mode-4 256KB 5200RPM	[illegible]
2.0GB IDE WDAC22000 - Enhanced IDE Mode-4 256KB 5200RPM	$198
2.5GB IDE WDAC22500 - Enhanced IDE Mode-4 256KB 5200RPM	$215
3.1GB IDE WDAC33100 - Enhanced IDE Mode-4 256KB 5200RPM	[illegible]
4.3GB IDE WDAC34300 - Enhanced IDE Mode-4 256KB 5200RPM	[illegible]
5.1GB IDE WDAC35100 - Enhanced IDE Mode-4 256KB 5200RPM	$Call
2.1GB Ultra SCSI-2 Enterprise E2170-3 512KB 7200RPM	[illegible]
2.1GB UltraWide SCSI-2 Enterprise E2170-7 512KB 7200RPM	[illegible]
4.3GB Ultra SCSI-2 Enterprise E4360-3 512KB 7200RPM	[illegible]
4.3GB UltraWide SCSI-2 Enterprise E4360-7 512KB 7200RPM	[illegible]

Quantum

2.1GB FireBall ST32160A EIDE UltraDMA 10ms, 5400RPM	[illegible]
3.2GB FireBall ST33240A EIDE UltraDMA 10ms, 5400RPM	[illegible]
4.3GB FireBall ST34320A EIDE UltraDMA 10ms, 5400RPM	[illegible]
6.5GB FireBall ST36480A EIDE UltraDMA 10ms, 5400RPM	[illegible]
2.1GB FireBall ST32160S Ultra-SCSI 10ms, 5400RPM	[illegible]
3.2GB FireBall ST33240S Ultra-SCSI 10ms, 5400RPM	[illegible]
4.3GB FireBall ST34320S Ultra-SCSI 10ms, 5400RPM	[illegible]
6.5GB FireBall ST36480S Ultra-SCSI 10ms, 5400RPM	[illegible]
4.3GB Atlas II XP34550N Ultra SCSI-2, 8ms, 7200RPM	[illegible]
4.3GB Atlas II XP34550W Ultra Wide SCSI-2, 8ms, 7200RPM	[illegible]

Seagate

2.15GB Barracuda 4LP ST32171N Ultra SCSI-2 50pin 7200RPM, 512K	[illegible]
2.15GB Barracuda 4LP ST32171W Ultra Wide SCSI-2 68pin 7200RPM, 512K	$52[illegible]
4.35GB Barracuda 4LP ST34371N Ultra SCSI-2 50pin 7200RPM, 512K	[illegible]
4.35GB Barracuda 4LP ST34371W Ultra Wide SCSI-2 68pin 7200RPM, 512K	[illegible]
9.1GB Barracuda9 ST19171N Ultra SCSI-2 50pin 7200RPM, 512K	$1269
9.1GB Barracuda9 ST19171W Ultra Wide SCSI-2 68pin 7200RPM, 512K	$1315
4.55GB Cheetah AV ST34501N Ultra SCSI 7.5/8.5MS, 10000RPM	[illegible]
9.1GB Cheetah AV ST19101W Ultra SCSI 7.5/8.5MS, 10000RPM	[illegible]

MicroPolis

4.5GB TomaHawk 4LP 4345NS Ultra SCSI-2 50pin 7200RPM, 8ms, 512K	$865
4.5GB TomaHawk 4LP 4345WS UltraWide SCSI-2 68pin, 7200RPM, 8ms, 512K	$875
9.1GB TomaHawk9 3391NS Ultra SCSI-2 50pin, 7200RPM, 8ms, 512K	[illegible]
9.1GB TomaHawk9 3391WS Ultra Wide SCSI-2 68pin, 7200RPM, 8ms, 512K	$124[illegible]

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EXPERTISE TECHNICAL SUPPORT
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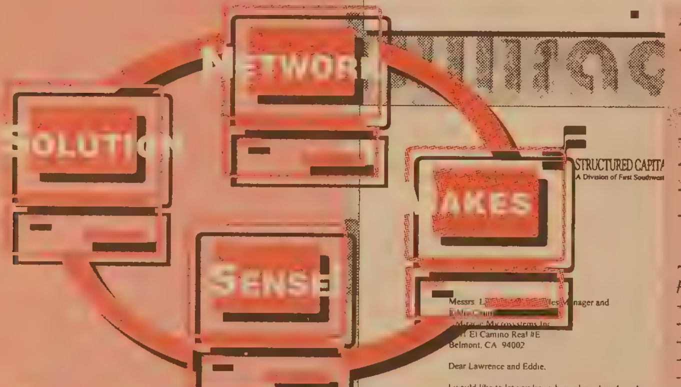

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5 + PEER2PEER NETWORK SOLUTION

- *FIVE ASUS TX97 AMD-K5 166MHz WorkStations w/Licensed Windows 95*
  (See Previous Pages for Workstation Configuration Details)
- *FIVE Intel EtherExpress 100BaseT PCI Network Interface Adapters Installed*
- *Up to 500' Catalog-5 100BaseT UTP Cabling (InWall w/ Plates - 5 Nodes)*
- *10BaseT 8-Port Hub*
- *HP LaserJet 5 Printer*
- *OnSite Windows 95 Peer to Peer Network Resources and Printer Setup*

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- *Network User + Administrator Training*
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- *TEN ASUS TX97 AMD-K5 166MHz WorkStations w/Licensed Windows 95*
- *ONE Intel Venus P6 Pentium Pro 180MHz File Server w/10 User Licensed NT4.0 Server*
  (See Previous Pages for Workstations and Server Configuration Details)
- *ELEVEN Intel EtherExpress 100BaseT PCI Network Interface Adapters Installed*
- *HP LaserJet 5N WorkGroup Printer w/10BaseT Connection to Server*
- *3COM 3C250 12-Port 100BaseT Stackable Hub*
- *APC Smart-UPS VS420 Un-interruptable Power Supply w/ Setup*
- *Up to 1100' Catalog5 100BaseT UTP Cabling (InWall w/ Plates - 11 Nodes)*
- *OnSite Windows NT WorkGroup Network Resources and Printer Setup*

Recommended Options:
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- *TWENTY Intel Tucson w/Audio Pentium 166MHz WorkStations w/Licensed Windows 95*
- *ONE Intel Providence PentiumPro File Server w/ One PentiumPro 180MHz CPU w/25 User Licensed NT4.0 Server with Dual 100BaseT PCI NICs each connected to 100BaseT hub for double thoroughput*
  (See Previous Pages for Workstations and Server Configuration Details)
- *TWENTY-TWO Intel EtherExpress 100BaseT PCL Network Interface Adapters Installed*
- *ONE HP LaserJet 5M WorkGroup Printer w/10BaseT Connection to Server*
- *TWO 3COM 3C250 12-Port 100BaseT Stackable Hub*
- *APC Smart-UPS VS650 Un-interruptable Power Supply w/ Setup*
- *Up to 2100' Catalog5 100BaseT UTP Cabling (InWall w/ Plates - 21 Nodes)*
- *OnSite Windows NT WorkGroup Network Printer and Resources Setup*

Recommended Options:
- *Internet Acces + EMail Solution*
- *3 KeyStroke Recovery Backup Solution*
- *Fax Server Solution*
- *Network User + Administrator Training*
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- *One RAID-5 Dual PentiumPro 200MHz-256K File Server w/45 User Licensed NT4.0 Server with Adaptec ANA-6940 Quad 100BaseT Port PCI Adapter for quadruple thoroughput*
  (See Previous Pages for Workstations and Server Configuration Details)
- *FORTY Intel EtherExpress 100BaseT PCI Network Interface Adapters Installed*
- *ONE HP LaserJet 5SiMX Departmental Printer w/10BaseT Connection to Server*
- *FOUR 3COM 3C250 12-Port 100BaseT Stackable Hubs*
- *APC Smart-UPS VS1000 Un-interruptable Power Supply w/ Setup*
- *Up to 4100' Catalog5 100BaseT UTP Cabling (InWall w/ Plates - 41 Nodes plus Wiring Rack)*
- *OnSite Windows NT WorkGroup Network Printer & Resources Setup*

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salespeople and knowledgeable and (most im
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Dear Lawrence and Eddie,

I would like to let you know how pleased we have been w
systems, the speed with which you turn around machines, and your wonderful service and repair operation
have allowed my firm t

My firm is an i
reliability of our
low prices as we

Thanks again fo
your boss of the

Sincerely,

Gregory J. Reite
Vice President

GULCH GOSSIP

continued from page 210

New Media Minds

ARE WE LOSING OURSELVES IN CYBERspace? Or are we finding each other? These questions will be asked once again as part of the endless contemporary anxiety about just what it means to be human in the digital age, when clearly the higher form of existence is to become a bit and get flipped. (See what I mean about censoring oneself?)

Anyway, apparently "leaders in new media will debate these and other questions as they examine the human side of the digital age at the **NTT New Media Minds Forum—"Intelligence, Technology & ARTificial Society: Who or What Are We Becoming?"** It's a four-part forum, presented by the San Francisco State University New Media Institute in association with **LEONARDO/ISAST** and sponsored by **Nippon Telegraph and Telephone Corporation (NTT)**.

The first two dates are with **Jaron Lanier**, on Thursday, September 11, 7:30 pm and "A Cyber-Feminine Perspective," a panel featuring **Esther Dyson**, **Denise Caruso**, **Linda Jacobson** and moderated by **Soledad O'Brien** on Thursday, September 25, also at 7:30 pm. Both events will in the Forum at the Center for the Arts, Yerba Buena Gardens. Series tickets are $65 for the general public and $45 for students/seniors. Individual tickets are $18 for the general public and $13 for students/seniors. Advance tickets are available. To purchase tickets, call the Center for the Arts Ticket Office at (415)978-ARTS (2787). For information and updates, check the SFSU Multimedia Studies program Web site at *http://msp.sfsu.edu* or call their information hotline at (415)904-7740. ■

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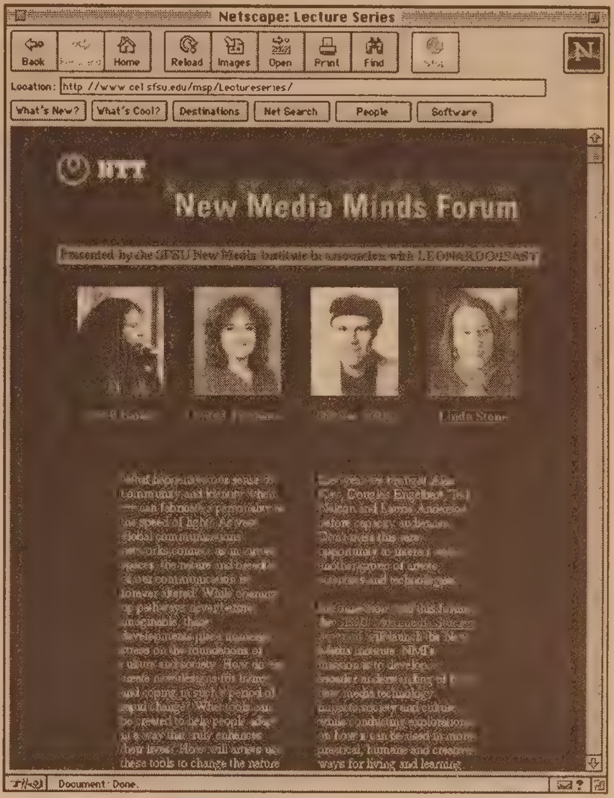

MultiMedia & BEYOND

MULTIMEDIA 101

continued from page 220

future as much for commercial and marketing reasons as for any creative reasons. For his part, Philip is now looking towards making an interactive multimedia work on DVD, possibly with MIDI files linked to graphics.

DEEP CONCENTRATION

Essentially, the Digital Beatbox (sometimes called, somewhat vulgarly, Ass-Max) is a combination of a drum machine with a sampler, preloaded with various loops and samples. Kalabacos reveals, "It's built in Director with some custom Xtras that handle the audio mixing so the sounds are actually external cast files." Even with its minor drawbacks, that's quite an achievement—and considering that it's basically given away with *Deep Concentration*, it's an amazing deal.

It's not going to win any awards as a piece of eye candy, but from the functional angle it does a lot. All told there are 240 samples and sixteen loops, both divided in half into Old School and Trippy banks. You can drag samples onto tracks, play them by clicking with the mouse or more readily from the keyboard. In fact, you can control almost the whole thing from the keyboard. You can adjust the beginning and end points of the samples. You can adjust the relative volumes of the samples. You can record your mixes and load them onto OM's Web site for others to download. You can download new samples from the Web site. In fact, the Digital Beatbox verges on being a tool rather than a toy. The only things that seem missing are some sort of tutorial to teach the neophyte how to build something that sounds good and a map of all the sounds. However, without these things, anyone who enjoys messing around with sounds could spend a lot of time with the Digital Beatbox.

It is, however, ironic that it comes with *Deep Concentration*, an album that celebrates the art of the DJ or turntablist. While some DJs use samplers and drum machines, purists don't—and the little video loops that play in the corner of the Digital Beatbox are of purists playing with their vinyl records, "black magic plastic bullets" as Lee "Scratch" Perry has called them. Somehow, I think it unlikely that pressing keys on a keyboard will replace the proprioceptive joy of two turntables and a mixer. ■

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RESOURCES:

OM Records
50 Minna St.
San Francisco, CA 94105-2931
(415)247-8800
URL: *http://www.om-records.com*

OM releases are available at well-stocked record stores, distributed by Caroline, and may be acquired directly from OM through the Web site. The list price for both *Radical Beauty* and *Deep Concentration* is $16.95.

Web Page Listings

continued from page 196

THe DeaD SouLs HoMe PaGe *http://www.geocities.com/Area51/8426/htdf.html* NIN, Metallica, Sound-garden, Jewel, 311, No Doubt, Garbage, Silverchair, Bush, and more. [Exp. #168.]

Dee Zaster. Esq. *http://www.globalpac.com/umpsm/c5.htm* The DZ gal is bound for Europe—and the continent will never be the same. [Exp. #170.]

DMTHG Productions *http://www.dmthg.com* Home of the Midi Music Machine, Bishop Gallery, Lion Pub, and winner's photo album. [Exp. #168.]

Dublin's Finest *http://ndigo.ie/~robbief* A selection of Dublin's finest establishments, including Tante Zoe's, Baton Rouge Restaurant, Reynard's Night Club. [Exp. #170.]

Eagle Golf Handicap Service *http://www.eaglehandicap.com/* [Exp. #168.]

Florence Multimedia *http://www.florencemm.com* Florence restaurant, hotel, art, and culture on the Net. [Exp. #168.]

The Funk—Live Music Video *http://www.thefunk.com* Music video from live concerts. [Exp. #168.]

Galapagos Yachts Cruises *http://www.galasam.com.ec* With Galasam, the Galapagos Islands are a paradise for ecotourism, adventure, diving, and bird-watching. [Exp. #169.]

Genghis Angus *http://www.genghisangus* One of the best unheard bands in the new breed of grass roots groups like Hootie and Dave Matthews. [Exp. #168.]

The Great American Baseball Trip *http://www.tmn.com/baseball* A interactive adventure to visit each Major League Baseball stadium. [Exp. #169.]

The GreenWeb—Your Gardening Resource! *http://www.boldweb.com/greenweb.htm* Filled with useful information for gardeners everywhere. Informational articles on growing seeds, medicinal herbs, organic gardening, etc. [Exp. #169.]

H. o. B. Film Production Web Site *http://ourworld.compuserve.com/homepages/boakye* British film investment opportunity. We're taking over the Oscars. If you can't beat them join them! [Exp. #168.]

Harley Davidson Spirit *http://www.mygale.org/~harley/* Entertainment, Web cams, photo, chat live, movies, strange pages, and more. [Exp. #169.]

High Voltage Chat *http://www.hvchat.com* Chat with Internet users from around with world in realtime. [Exp. #169.]

Hotel Carasco *http://space.tin.it/turismo/mdelbono/index* [Exp. #168.]

Humor *http://www.masters.com/humor.html* Laff—it's good for your insides. [Exp. #168.]

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It's Showtime *http://www.geocities.com/Colosseum/Loge/1262* This site is dedicated to the Showtime Lakers, and the long legacy it has left. [Exp. #170.]

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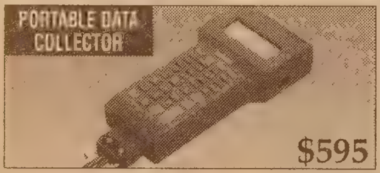

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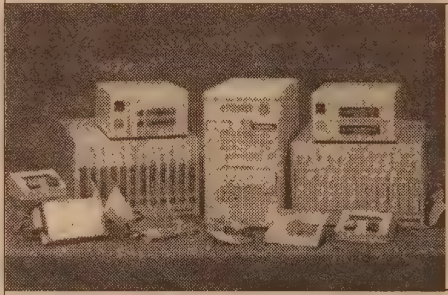

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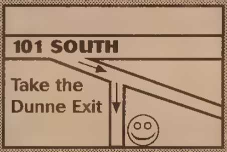

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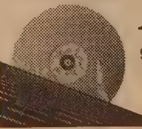

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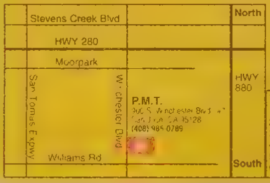

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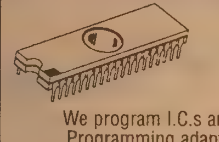

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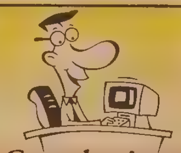

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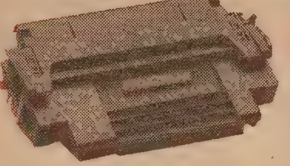

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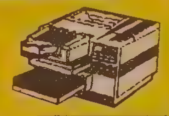

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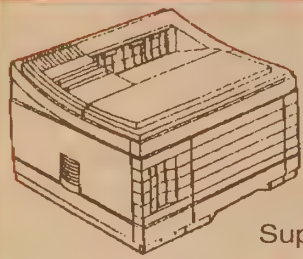

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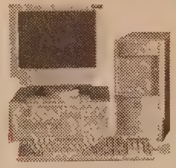

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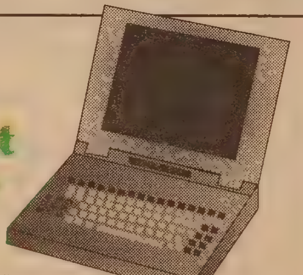

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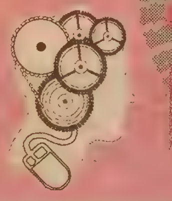

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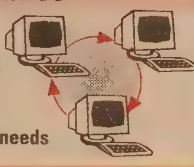

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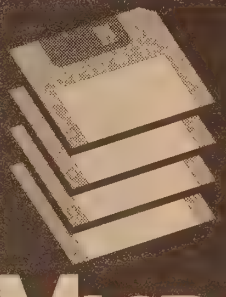

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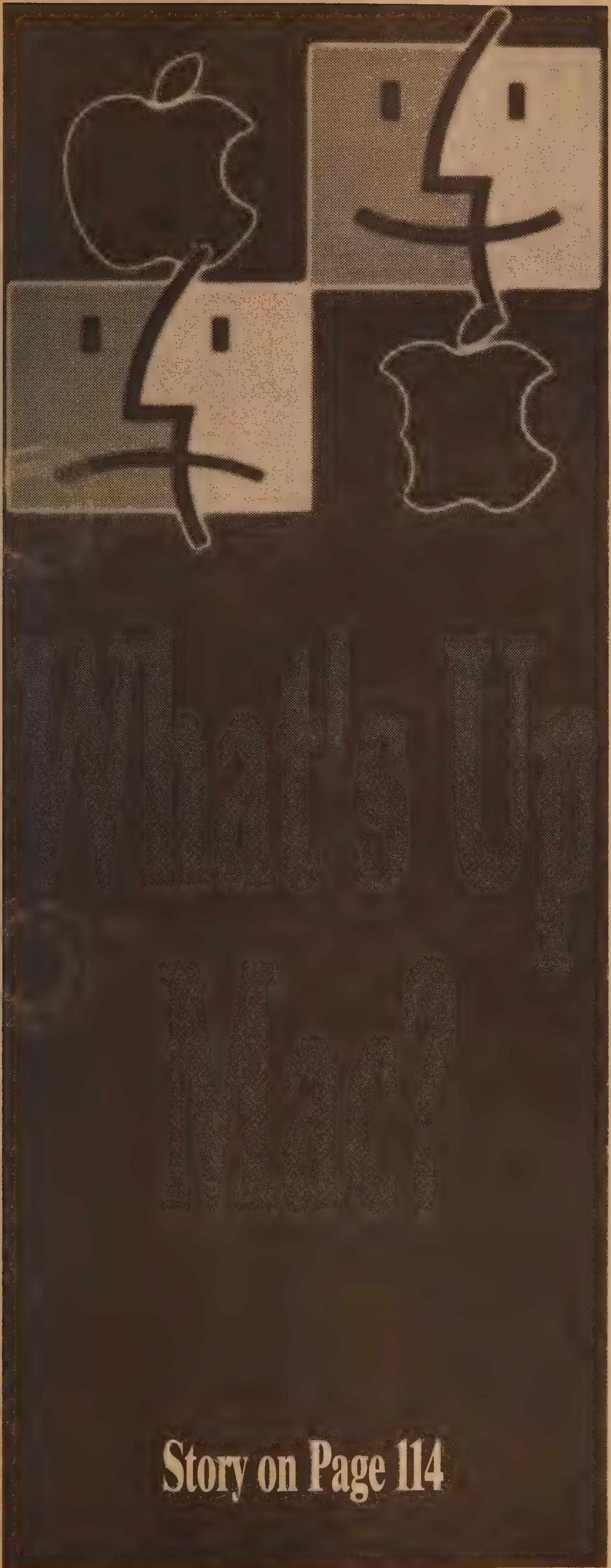

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Resources

Calendar Of Events

Conferences, Shows, Special Events

August

August 13–15 Windows NT Intranet Solutions. San Francisco. SOFTBANK Forums. Contact: 1-800-800-8920, or URL: *http://www.winits.com* .

August 14 Animation Training Open House. San Francisco. Mesmer Animation Labs. Contact: 1-800-237-7311.

August 14–15 RSA Laboratories 1997 Seminar Series. Oakland. Contact: (415)595-7703, *rsa-labs @rsa.com* , or URL: *http://www.rsa.com/rsalabs/* .

August 16 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

August 17–22 SCO Forum '97. Santa Cruz. Contact: (408)425-7222, or URL: *http://www3.sco.com/forum97/* .

August 20 Software Forum Special Meeting: Business In A Box. Palo Alto. Contact: (415)854-7219, or URL: *http://www.softwareforum.org* .

August 20–22 The Third Annual Utility Industry Handheld and PDA Forum '97. St. Louis, MO. World Market Strategies. Contact: (415)252-8008, *info@wmsltd.com* , or URL: *http://www.pda-expo.com* .

August 20–23 ISPCON '97 (Internet Service Provider Convention). San Francisco. Contact: 1-800-933-6038, or URL: *http://www.ispcon.com* .

August 23 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

August 25–28 Java Internet Business Expo. New York, NY. Contact: (415)578-6900, or URL: *http://www.sbforums.com* .

August 25–28 Nomadic '97: Enabling Mobility on the Internet. Santa Clara. Contact: *custserv@tticom.com* or URL: *http://www.tticom.com/nomadic* .

August 29–September 1 11th Annual Invention Convention Trade Show. Pasadena. The Invention Convention. Contact: 1-800-458-5624, *inventionconvention@inventionconvention.com* , or URL: *http://www.inventionconvention.com* .

September

September 2, 18 Free Seminar: CNE/MCSE Network Certification—Career Opportunities in the Bay Area. San Jose. LANOP. Contact: (408)441-9902.

September 4, 20 Free Seminar: CNE/MCSE Network Certification—Career Opportunities in the Bay Area. San Francisco. LANOP. Contact: (415)344-0699.

September 6 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

September 7 Livermore Amateur Radio Klub (LARK) Swap Meet. Las Positas College, Livermore. LARK. Contact: (510)783-2803, or (510)447-3857 (eves.).

September 8–11 Electronic Commerce World. Philadelphia, PA. Contact: 1-800-336-4887, *ecworld@ix.netcom.com* , or URL: *http://www.ecomworld. com* .

September 8–9 Internet Outlook. Burlingame. Contact: (212)343-1900, or URL: *http://www.tpsite.com* .

September 9 Technical Job Fair. Sacramento. California Job Journal. Contact: 1-800-655-JOBS.

September 11 Intelligence, Technology, & ARTificial Society: Who or What Are We Becoming? San Francisco. NTT New Media Minds Forum. Contact: (415)904-7740, or URL: *http://msp.sfsu.edu* .

September 13 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

September 14–17 ICSPAT & DSP World Expo 1997. San Diego. Contact: 1-888-239-5563, or URL: *http://www.dspworld.com* .

September 15–19 DCI's Sales Force Automation Conference and Exposition. San Jose. DCI. Contact: (508)470-3880, or URL: *http://www.dciexpo.com* .

September 15–19 IT Forum '97. New York City, NY. Miller Freeman. Contact: 1-800-232-3976, or URL: *http://www.itforum.com* .

SEPTEMBER 8–9

Internet Outlook

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SEPTEMBER 24–26

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Classes, Seminars, Workshops

August

August 12 Netscape 3.1 Overview. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 12 Intro to Windows 95. San Mateo. Zephyr Business Services. Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

August 13 Explorer 3.0 Overview. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 13 Intermediate WordPerfect for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 13 Web Design. Walnut Creek. Internet University of America, Inc. Contact: (510)933-0500, or URL: *http://www.phdnet.com* .

August 13–15 Using JavaScript to Build Dynamic Web Pages. San Francisco. Bay Area Video Coalition (BAVC). Contact: (415)861-3282, *videonet@aol.com* , or URL: *http://www.bavc.org* .

August 14 Front Page 97 Overview. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 14 Introduction to Excel for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 14–15 AutoCAD 3D. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

August 14–16 Printed Circuits Components, Fabrication, and Assembly Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838, *TeachACAD@aol.com* , or URL: *http://www.copperconn.com* .

August 15 Intro to Windows 3.1/95. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

August 15 Excel 5.0, 7.0, and Version 97. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

August 15 Front Page 97 Web Design. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 15–22 Automating Microsoft Access with Macros. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

August 16 PC Basics I. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

August 16 3D Studio Max I. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

August 16 Network Management: Tools and Technologies. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

August 18 Free Microsoft Exchange Presentation. San Jose. Contact: (408)281-5818.

August 18 Introduction to WordPerfect for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 18 Intro to Microsoft Word. San Mateo. Zephyr Business Services. Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

August 18 Netscape Navigator 3.0. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

August 18 Demystifying Programming. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

August 18–20 Auto Architect. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

August 18–22 Hands-On Windows NT Workstation and Server. Fremont. UC Berkeley Extension. Contact: (510)642-4111, or URL: *http://www.unex.berkeley.edu:4243* .

August 18–22 Administering Microsoft Windows NT 4.0. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 18–22 Supporting Windows NT 4.0–Core Technologies. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 18–22 Supporting Windows NT Server 4.0–Enterprise Tech. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 18–22 Intermediate Alias/Wavefront PowerAnimator. San Francisco. Mesmer Animation Labs. Contact: 1-800-237-7311.

August 18–22 C++ Programming Workshop. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

August 18–22 System Admin. for Windows NT Workstation. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

August 18–22 Troubleshooting and Support for Network Administrators. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

August 18–24 Internetworking with TCP/IP on Windows NT 4.0. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 18–24 Internetworking with TCP/IP on Windows NT 4.0. Fremont. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 18–24 Supporting Windows NT Server 4.0—Enterprise Tech. Fremont. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 18–29 IMM Intensive. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

August 18–September 15 Visual Design 2. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

August 18–September 29 Director. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

August 19 PowerPoint 4.0, 7.0, and Version 97. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

August 19 Lotus 1-2-3. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

August 19–26 Project 4.0, 5.0, and Version 97. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

August 20 Word 6.0, 7.0, and Version 97. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

August 20 Windows 95 Overview (In Japanese). Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 20 Introduction to PowerPoint for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 20–September 24 Managing Your Mac. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

August 21 Word 97 Introduction (In Japanese). Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 21 Introduction to Word for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 21 Doing Business on the Net. Walnut Creek. Internet University of America, Inc. Contact: (510)933-0500, or URL: *http://www.phdnet.com* .

August 21 Dragon NaturallySpeaking Workshop. San Mateo. Zephyr Business Services. Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

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3940 SCSI PCI	$299
3940W SCSI PCI	$469

TAPE BACK-UP DRIVES

IOMEGA

ZIP Drive	
100MB External Parallel	$158
100MB Insider w/SCSI Card	$158
100MB Cartridge	$18
JAZ Drive	
1.0GB SCSI Drive Insider	$299
1.0GB SCSI Drive External	$399
1.0GB Cartridge	$99

HP/COLORADO

DJ-50 1.3GB Int/Controller	$199
C1534 4mm Dat 1-2GB SCSI Int	$538
C1536 4mm Dat 2-4GB SCSI Int	$638
C1533 4mm Dat 4-8GB SCSI Int	$868
HP Mounting Kit to 5.25"	$35

SCSI HARD DRIVES

IBM

DORS-32160 2.1GB Ultra SCSI	$368
ACAS-32160 2.1GB Ultra Wide SCSI-3	$388
DCAS-34330 4.3GB Ultra SCSI-2	$588
DCAS-34330W 4.3GB Ultra Wide	$598
DCHS-39100 9.1GB Ultra SCSI-2	$1588
DCHSD-39100W 9.1GB Ultra Wide	$1598

QUANTUM

TM1280S Fireball 1.28GB Ultra SCSI-3	$258
TM32110S Fireball 2.1GB Ultra SCSI-3	$328
AL32275SW Atlas II 2.3GB Ultra Wide	$498
AL34550S Atlas II 4.5GB Ultra SCSI-3	$798
AL34550SW Atlas II 4.5GB Ultra Wide	$798
AL39100S Atlas II 9.1GB Ultra SCSI-3	$1298
AL39100SW Atlas II 9.1GB Ultra Wide	$1299

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- Intel "Portland" Motherboard
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- 1.44 Floppy Drive
- ATI 3D Pro Turbo PC2TV w/8MB
- 16X EIDE CD-ROM
- SoundBlaster AWE 64
- Yamaha Stereo Speaker
- Deluxe ATX Medium Tower
- Mitsumi Windows 95 Keyboard
- Microsoft PS/2 Mouse w/Pad

Monitor Sold Separately

Intel-266MHz MMX $1799

INTEL VENUS PENTIUM® PRO

- Intel Pentium® Pro 200MHz CPU
- Intel "Venus" Motherboard
- 32MB RAM (60ns)
- 1.2GB EIDE Hard Drive
- 1.44 Floppy Drive
- Diamond Stealth 3D w/2MB
- Deluxe ATX Medium Tower
- Mitsumi Windows 95 Keyboard
- PS/2 Mouse w/Pad

Monitor Sold Separately

PRO-180/200MHz $859/999

INTEL PROVIDENCE DUAL PENTIUM® PRO

- Intel Pentium® Pro 200MHz Processor w/256K Cache
- Intel "Providence" Dual Pentium® Pro Motherboard
- 32MB RAM (ECC DIMM)
- 4.3GB Ultra Wide SCSI Hard Drive
- Enhanced IDE Controller with I/O
- 1.44 Floppy Drive
- Intel EtherExpress Pro 100 Fast Ethernet
- Yamaha 16 Sound Card
- Adaptec 2940UW SCSI Controller
- 16X IDE CD-ROM
- 64-Bit w/1MB SVGA
- Mitsumi 104 Keyboard
- Super ATX Full Tower w/3 Cooling Fans
- MS Compatible Mouse w/Pad

Monitor Sold Separately

Dual Pentium® Pro 200 ....$2399
Second CPU Option Add $488

WINDOWS NT WORKSTATION

- Intel Pentium® Processor
- Intel Triton Motherboard
- 256K Pipeline Burst Cache
- 16MB EDO RAM, 60ns
- 1.2GB EIDE Hard Drive
- 1.44 Floppy Drive
- 16X CD-ROM Drive
- Diamond Stealth 3D w/2MB
- Enhanced IDE Controller with I/O
- Mitsumi Windows 95 Keyboard
- Deluxe Mini Tower
- Serial Mouse w/Pad
- Microsoft Windows NT 4.0

Monitor Sold Separately

P-150MHz $699

P-200MHz $799

INTEL ANCHORAGE PERFORMER

- Intel Pentium® MMX Processor
- Intel Anchorage Motherboard
- 512K Pipeline Burst Cache
- 16MB DIM SRAM, 10ns
- 1.2GB EIDE Hard Drive
- 1.44 Floppy Drive
- 16X EIDE CD-ROM Drive
- Diamond Stealth 3D w/4MB
- Sound Blaster 16 on Board
- Yamaha Stereo Speaker
- Mitsumi Windows 95 Keyboard
- Deluxe ATX Medium Tower
- MS Compatible Mouse w/Pad

Monitor Sold Separately

P-200MMX........$959

P-233MMX $1099

CD-ROMs

NEC	
8X EIDE	$58
8X SCSI	$165
SONY	
8X EIDE	$58
16X EIDE	$88
PANASONIC	
12X EIDE	$78
24X EIDE	$109
TOSHIBA	
24X EIDE	$99
16X EIDE	$79
15.7X SCSI XM-5901B-S	$199
MITSUMI	
8X EIDE	$58
16X EIDE	$88
SANYO	
20X EIDE	$109

CD-WRITER

HP	
SureStore C6020I 6X Read 2X Write	$499
PHILIPS	
CDD 2000/12 4X Read, 2X Write Int	$589
CDD 2010/20 4X Read, 2X Write Ext	$699
CDD 2600/12 6X Read, 2X Write Int	$699
CDD 2600/20 6X Read, 2X Write Ext	$799
YAMAHA (Retail)	
CDR-400 6X Read 4X Write Int.	$648
CDR-400 6X Read 4X Write Ext.	$799
Adaptec CDR Easy CD Pro (Win 95/NT/Win 3.11)	$150
Adaptec CD-Creator (Win 95/NT/Win 3.11)	$169
Adaptec CD-Creator for Mac	$175
Blank CD-ROM 650MB (Brand Name)	$7.99

MULTIMEDIA

SOUND CARD & SPEAKERS

16-Bit SB Compatible	$29
CREATIVE LABS	
Sound Blaster 16 PnP	$46
Sound Blaster 16 IDE PnP	$58
Sound Blaster 32 IDE PnP	$69/
Sound Blaster 64 AWE PnP	$128
Sound Blaster 64 AWE + Gold	$149
ALTEC LANSING	
ACS51	$59
ACS52	$79
ACS53 27 Watt Speaker w/Subwoofer	$125
ACS500 5 Channel 3pcs Sound Systems	$299
YAMAHA	
M7 Speaker	$48
M15 Speaker	$78
System 35 w/subwoofer	$129
System 45 w/subwoofer	$169
OEM	
60 Watt Speakers	$15
120 Watt Speakers	$15
180 Watt Speakers	$35

MOTHERBOARDS

SUPER MICRO	
6DNE Dual Pentium® Pro	$348
6DNF Dual Pentium® Pro	$388
INTEL	
"Providence" Dual Pentium® Pro (ATX)	$488
"Venus" Pentium® Pro (ATX)	$128
"Lone Tree" Pentium® w/512K (ATX)	$138
"Tucson" Pentium® w/512K (ATX)	$168
"Marl" Pentium® w/256K (ATX)	$98
"Anchorage" Pentium w/512K (ATX)	$188
"Portland" Pentium II (ATX)	$235
ASUS	
P55T2P4 w/512K PB (AT)	$139
VX97 w/512K (AT)	$99
TX97 w/512K PB (AT)	$159
TX97E w/512K PB (AT)	$149
TX97X w/512K PB (ATX)	$149
TX97XE w/512K PB (ATX)	$169
TX97X w/Audio w/512K PB (ATX)	$189

CPUs

Intel Pentium® Pro 150/180/200MHz	$188/288/488
Intel Pentium® MMX CPU 166/200/233MHz	$139/259/389
Intel Pentium® 150MHz/166MHz/200MHz	$109/139/199
Intel Pentium® 100MHz/120MHz/133MHz	$89/99/99
AMD K-6 166/200/233MHz MMX	$129/199/299
Intel Pentium® II 233/266MHz MMX	$558/699

MOTHERBOARDS w/CPU

Intel "Venus" Pentium Pro® M/B (ATX) Only	$128
w/150/180/200MHz	$316/416/816

MOTHERBOARDS w/CPU

Intel "Tucson" w/512K M/B (ATX) Only	$168
w/150/166/200MHz Intel CPU	$277/307/367
w/166 MMX/200 MMX Intel CPU	$307/427
Intel "Marl" w/512K M/B (ATX) Only	$118
w/150/166/200MHz Intel CPU	$227/257/317
Intel "Portland" Pentium® II w/512K M/B Only	$239
w/233/266MHz MMX Intel CPU	$796/937
Intel "Anchorage" w/512K M/B Only	$188
w/166/200/233MHz MMX Intel CPU	$327/447/577
Intel Triton w/256K Burst Cache M/B Only	$79
w/150/166/200MHz Intel CPU	$188/218/278
w/166/200MHz MMX Intel CPU	$218/338
w/AMD K-6 166/200MHz MMX	$208/278
Intel Triton TX w/512K Burst Cache M/B Only	$129
w/166/200/233 MMX Intel CPU	$168/388/418
w/AMD K-6 166/200/233MHz MMX	$258/328/428

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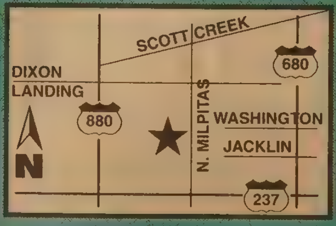

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SPECIALS

INTEL 150MHz NETWORK PC

- Intel Pentium® Processor
- Intel Triton Motherboard
- 256K pipeline Burst Cache
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- 3COM 3C509 Ethernet Card
- Mitsumi Windows 95 Keyboard
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Special Sale! PENTIUM® PRO 150MHz BASIC SYSTEM

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- Intel Pentium® Processor
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- 3D Sound Card
- PCI SVGA w/1MB
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- Deluxe Mini Tower
- MS Compatible Mouse w/Pad

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P-133MHz	$538
P-166MHz	$599
P-200MHz	$699
Cyrix P-166+	$558

SPECIAL SALE! AMD K-6 233MHz MMX

- Intel Triton Chipset Motherboard
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- 512K Pipeline Cache
- 16MB EDO RAM (60ns)
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- Deluxe Medium Tower
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- Serial Mouse w/Pad

Monitor Sold Separately

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K6-200MHz MMX $659

MONTHLY SPECIALS

16X IDE CD-ROM	$65
Toshiba 24X CD-ROM	$99
Sound Blaster 32	$69
Sound Blaster AWE 64 Gold w/4MB Gold Bulk	$149
Sound Blaster AWE 64 Value Bulk	$79
S3 Virge 3D w/4MB EDO	$48
Diamond Stealth 3D 2000 w/4MB EDO	$69
ATI 3D Pro Turbo PC2TV w/8MB SGRAM	$163
Matrox Millennium II 4MB WRAM	$199
Quantum 4.3GB EIDE Hard Drive	$228
Quantum 6.4GB Ultra IDE Hard Drive	$389

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17" XV17+ 1600x1280 .28dp
Win 95 Plug & Play

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15" XV15+ 1280x1024 .28dp SVGA Monitor	$348
21" P1150 1600x1280 .28dp	$1899

MAG

17" DJ700 1280x1024 .26dp SVGA
Win 95 Plug & Play Monitor

$518

15" DX15T Trinitron 1280x1024 .25dp PnP SVGA Monitor	$298
17" DJ702 Trintron 1280x1024 .25dp PnP SVGA Monitor	$638

SONY

17" 200SX Trinitron Tube
1280x1024 .25dp SVGA,
WIN 95, PnP, Monitor

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*$50 Instant Rebate, Regularly $638

15" 100SX 1280x1024 .25dp SVGA	$308
15" 100SF 1280x1024 .25dp SVGA	$348
17" 200SX 1280x1024 .25dp SVGA	$588
17" 200SF 1600x1280 .25dp SVGA	$688
20" 300SFT 1600x1280 .31dp SVGA	$1580
20" 20SE2T 1600x1280 .25dp SVGA	$1758

NANAO

17" T2-17TS 1600x1280 .25dp SVGA

$848

17" FX-C5 1280x1024 .28dp SVGA	$688
17" FX-C6 1600x1280 .26dp SVGA	$768
17" TXC-7S 1600x1280 .25dp SVGA	$988
21" FX-E7 1600x1280 .28dp SVGA	$1618

VIEWSONIC

17" G771 1280x1024 NI .28dp SVGA	$518
17" 17PS 1600x1280 NI .25dp TCO	$628
17" PT770 1600x1280 NI .25dp	$638
17" PT775 1600x1280NI .25dp	$718
20" 6800 1600x1280 .28dp	$958
21" G810 .25dp 1600x1280	$1238
21" PT813 1600x1280 .28dp	$1399
21" P815 1800x1440 .25dp	$1448

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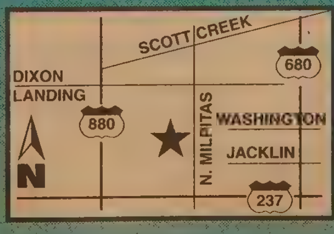

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Calendar Of Events

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August 21–22 AutoCAD MAP. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

August 21–September 11 Illustrator. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

August 21–September 4 Interactive Authoring: Lingo 1. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

August 22 Excel 97 Introduction (In Japanese). Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 22 Intermediate Excel for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 22–September 12 Photoshop 1. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

August 23 Advanced Photoshop. Berkeley. Kala Institute. Contact: (510)549-2977, or URL: *http://www.kala.org* .

August 23 Intro to Windows 95. San Mateo. Zephyr Business Services. Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

August 23 Free Seminar: Become A Skilled Cyber Investor. San Francisco. Contact: (415)673-9620.

August 25 Free Microsoft Exchange Presentation. San Jose. Contact: (408)281-5818.

August 25 Word 97 Intermediate (In Japanese). Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 25–26 AutoCAD 14 Update. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

August 25–27 Implementing Microsoft Exchange Server and Clients. Fremont. UC Berkeley Extension. Contact: (510)642-4111, or URL: *http://www.unex.berkeley.edu:4243* .

August 25–29 Administering Microsoft Windows NT 4.0. Fremont. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 25–31 Accelerated Training for Windows NT 4.0. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 25–September 22 Photoshop 2. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

July 28–August 1 Accelerated Training for Windows NT 4.0. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 26 Excel 97 Intermediate (In Japanese). Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 26 Video and Audio for the Web. San Francisco. Bay Area Video Coalition (BAVC). Contact: (415)861-3282, *videonet@aol.com* , or URL: *http://www.bavc.org* .

August 27 End-To-End Application Development. San Jose. Wave Technologies. Contact: 1-800-860-1973 or URL: *http://www.wavetech.com* .

August 27 Intermediate WordPerfect for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 27–29 Administering Microsoft Windows NT 4.0. Fremont. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 29 Windows 95 for CAD Users. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

August 29 Windows NT for CAD Users. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

August 29–September 12 QuarkXPress 2. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

August 30 Macintosh Graphics Extravaganza. Berkeley. Kala Institute. Contact: (510)549-2977, or URL: *http://www.kala.org* .

September

September 1 Free Microsoft Exchange Presentation. San Jose. Contact: (408)281-5818.

September 2–16 Electric Image 1: Animation/Geometry. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 2–16 Detailer. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 2–23 QuickTime 1: Working with Digital Video and Premiere. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 2–30 Speech Recognition Beginning Through Advanced Classes. San Mateo. Zephyr Business Services. Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

September 3 Paradox 4.5/5.0. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 3 Introduction to Excel for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

September 3–17 Windows. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 3–24 Shockwave for Director. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 3–5 Windows 95/97 Technical Support. Fremont. UC Berkeley Extension. Contact: (510)642-4111, or URL: *http://www.unex.berkeley.edu:4243* .

September 4 WordPerfect 6.0/6.1. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 4 Photoshop 4.0. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 4 Access 2.0, 7.0, and Version 97. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 4–5 AutoCAD 3D. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

September 5 Introduction to PowerPoint for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

September 5 Word 6.0, 7.0, and Version 97. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 5 Color Pre-Press. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 5–September 26 Color Pre-Press. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 6 Introduction to Painter. Berkeley. Kala Institute. Contact: (510)549-2977, or URL: *http://www.kala.org* .

September 7 Careers in Computer Animation. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 7–September 21 QuarkXPress 1. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 8 Director I: Introduction. Berkeley. Kala Institute. Contact: (510)549-2977, or URL: *http://www.kala.org* .

Calendar Of Events *continued...*

September 8 Free Microsoft Exchange Presentation. San Jose. Contact: (408)281-5818.

September 8 Intermediate Excel for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

September 8 Netscape Navigator 3.0. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 8 Demystifying Programming. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 8 Using Photoshop Seminar. Sacramento. National Seminars Group. Contact: 1-800-258-7246, or URL: *http://www.natsem.com* .

September 8–10 Fundamentals of Visual Basic 4.0. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 8–10 Internetworking with MS TCP/IP. Fremont. UC Berkeley Extension. Contact: (510)642-4111, or URL: *http://www.unex.berkeley.edu:4243* .

September 8–11 Professional AutoCAD Level I. Santa Clara. The Copper Connection. Contact: (408)970-9838, *TeachACAD@aol.com* , or URL: *http://www.copperconn.com* .

September 8–12 C++ Programming Workshop. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 8–12 System Admin. for Windows NT Server 3.51/4.0. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 8–29 Painter 1. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 8–9 Using the Internet. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 9 Pagemaker 6.0/5.0. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 9 Introduction to Word for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

September 9 Using Photoshop Seminar. Concord. National Seminars Group. Contact: 1-800-258-7246, or URL: *http://www.natsem.com* .

September 21–November 4 Macintosh Basics. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 10 Intermediate Word for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

September 10 Using Photoshop Seminar. Santa Rosa. National Seminars Group. Contact: 1-800-258-7246, or URL: *http://www.natsem.com* .

September 10–24 Macintosh Basics. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 10–October 1 Photoshop 1. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 8–10 3D Studio MAX. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

September 11 Excel 5.0, 7.0, and Version 97. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 11 Introduction to WordPerfect for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

September 11 Fitness for the Computer Athlete. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 11 Using Photoshop Seminar. San Francisco. National Seminars Group. Contact: 1-800-258-7246, or URL: *http://www.natsem.com* .

September 11–12 AutoCAD ADE. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

September 11–12 AutoCAD MAP. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

September 11–October 2 Illustrator. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 12 Intermediate WordPerfect for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

September 12 Intro to Windows 3.1/95. Emeryville. Northwest Computer Systems Training Classes. Contact: (510) 653-0808, ext. 220.

September 12 Using Photoshop Seminar. San Jose. National Seminars Group. Contact: 1-800-258-7246, or URL: *http://www.natsem.com* .

September 13 Introduction to Photoshop. Berkeley. Kala Institute. Contact: (510)549-2977, or URL: *http://www. kala.org* .

September 15 Free Microsoft Exchange Presentation. San Jose. Contact: (408)281-5818.

September 15 The Basics of Web Site Design. Sacramento. AMA/Padgett Thompson. Contact: 1-800-255-4141.

September 15–17 AutoCAD Basics. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

September 15–17 System Admin. for Netware 4.1. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 15–18 Professional AutoCAD Level II. Santa Clara. The Copper Connection. Contact: (408)970-9838, *TeachACAD@aol.com* , or URL: *http://www.copperconn.com* .

September 15–19 System Admin. for Windows NT Workstation. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 15–19 Windows 95: Installation and System Support. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 15–19 Troubleshooting and Support for Network Administrators. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 15–19 Internetworking TCP/IP with Windows NT Server 3.51/4.0. Emeryville. Northwest Computer Systems Training Classes. Contact: (510)653-0808, ext. 220.

September 15–October 13 3D Studio Max 1. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

September 22–25 Professional AutoCAD Level III. Santa Clara. The Copper Connection. Contact: (408)970-9838, *TeachACAD@aol.com* , or URL: *http://www.copperconn.com* .■

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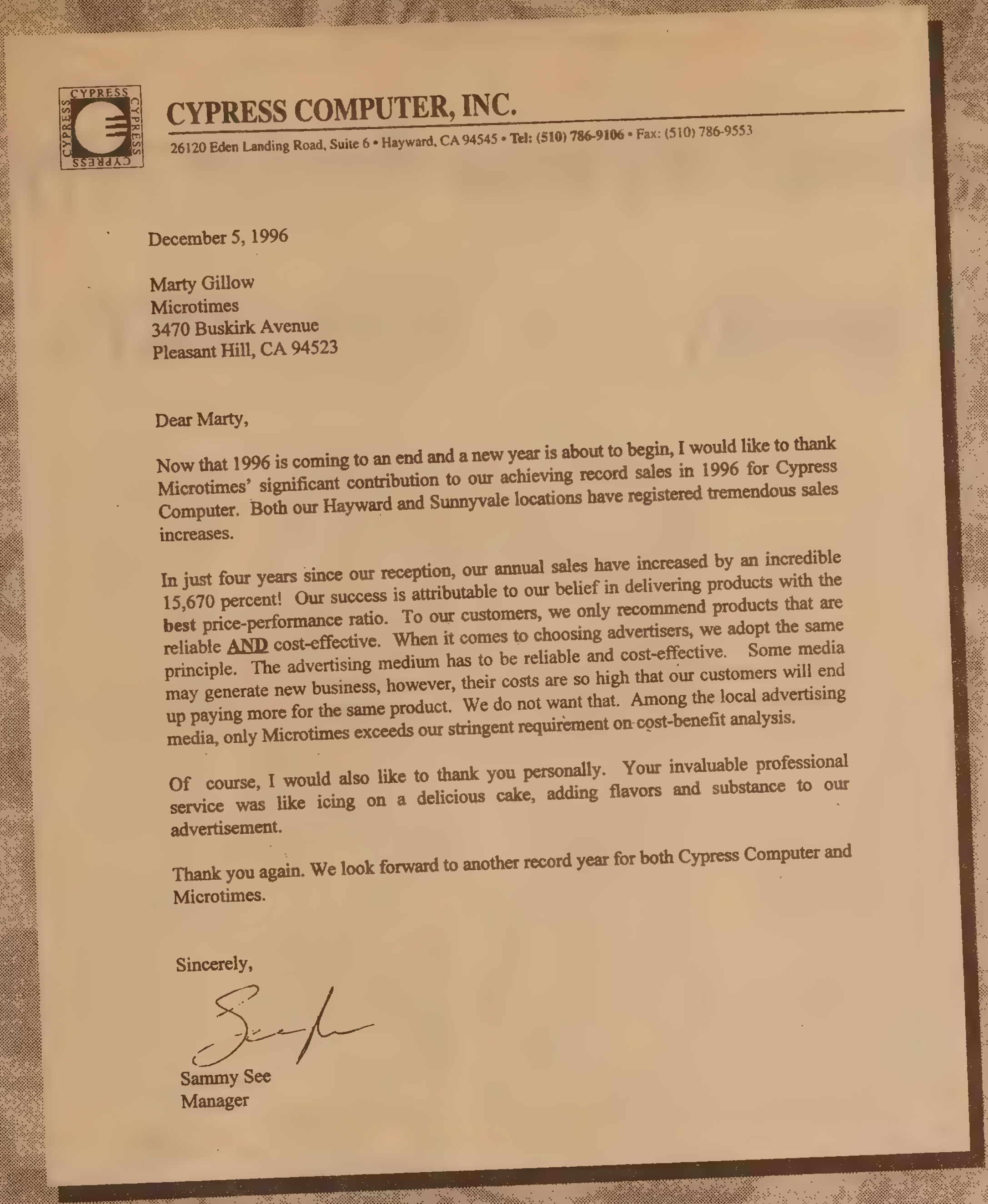

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December 5, 1996

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USER GROUPS

AMIGA

AWEST—Amiga Users In SF. Meetings: 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Call: (415) 474-1164; BBS (415)441-1120. [Exp.#172.]

ATARI

San Leandro Computer Club. Meetings: 1st Tues., 8:00 pm, San Leandro Main Library, Estudillo Room, 300 Estudillo Ave. Call: Robbie, (510)797-5636. [Exp.#170.]

CAD

San Francisco 3D Studio User Group. Check Web site for location, date, subject and other information. URL: *http://www.sf3dsug.com* . [Exp.#173.]

COMMODORE

CHUG (Commodore Hayward User Group). Meetings: 2nd Sat., 2:00 pm, Palma Ceia Park Clubhouse, Hayward. Commodore 64 and 128 owners are welcome to attend. Call: (510)793-7868. [Exp.#173.]

CWEST—Commodore 64/128 Users In SF. 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission (near Ocean), San Francisco. Call: (415)474-1164; BBS (415)441-1120. [Exp.#172.]

Diablo Valley Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, Clayton Valley Presbyterian Church, 1748 Kirker Pass Rd., Clayton. Call: (510) 689-3224. [Exp.#168.]

IBM AND COMPATIBLES

AT&T Computer Users Group. Meetings: 1st Wed., 7:00 pm, 50 Fremont St., 40th Floor (near 1st and Mission), San Francisco. Demonstrations, technical support, informal discussion. Call: (415)885-6631. [Exp.#173.]

Business Operations SIG of the Software Forum. Meetings: 1st Thurs., 7:00 pm, Palo Alto. Free to members, $10 for non-members. Contact: Brian Tien, *brian@leansoft.com* . [Exp.#173.]

Diablo Valley User Group–DVPC. Meetings: 1st Thurs., 7:00 pm, Bank of America, Bldg. B, 2001 Clayton Rd. at Galindo, Walnut Creek. SIGs include Internet, Windows, Beginner's, Visual Basic, education/entertainment, and more. Call: Craig Peterson, (510)671-7025, *bod@dvpc.org* , or URL: *http:www.dvpc.org* . [Exp.#173.]

East Bay FOG. Meetings: 2nd Wed., 7:30 pm, Episcopal Church of St. John-in-Montclair, 1707 Gouldin Rd., Oakland. All microcomputers, MS-DOS, CP/M. Call: (510)653-2627, 8 am–10 pm. [Exp.#173.]

Golden Gate Computer Society. Meetings: 4th Mon., 7:00 pm, San Rafael Community Center, 618 B St., San Rafael. Free intro to computers class at 6:00 pm. Call: (415)454-5556, or URL: *http://www.ggcs.org* . [Exp.#170.]

PC Clubhouse. Meetings: 1st Fri., 7:30 pm, swap at 7:00 pm, Meiklejohn Hall, Room 2002 (inside 1009), CSU Hayward. Share knowledge and PD/shareware, mentor assistance, SIGs. Call: (510)276-6450 or 538-2449. [Exp.#168.]

PC Users Group Of The Redwoods. Meetings: 2nd Thurs., 6:30 pm, Santa Rosa Veteran' s Memorial Building, East Dining Room, Maple Ave., Santa Rosa. Call: (707)527-USER, *info@sonic.net* , or URL: *http://pcugr.pcugr.org* . [Exp.#169.]

Peninsula Computer Club. Meetings: 2nd Thurs., 7:30 pm, 222 Laurel St., San Carlos. DOS and CP/M libraries. Call: (415)593-9981, BBS (415)571-9259, or *larryw3553@aol.com* . [Exp.#170.]

San Francisco Business Computers. Meetings: 4th Tues., 5:30 pm, 110 Pacific, #153, San Francisco. For people who use computers in their work. Visitors $10. Call: (415)788-5338 or *sfbc@juno.com* . [Exp.#169.]

San Francisco PC Users Group. Meetings: 3rd Tues., 7:30 pm, PUC Auditorium, 505 Van Ness Ave./McAllister. Presentations, Q&A sessions. Call: Jerry Stern, (415)572-1100 or 777-1332 for recorded events message. URL: *http://www.sfpcug.org/~group* . [Exp.#173.]

Stanford Palo Alto Users Group For PC (SPAUG). Meetings: final Wed., 7:30 pm, Conference Center at EPRI, 3412 Hillview, Palo Alto. All welcome. Call: Bev Altman, (415)368-9530 or 329-8252. [Exp.#172.]

INTERNATIONAL

International Macintosh Users Group (IMUG). Meetings: 3rd Thurs., 7:00 pm, Apple Computer, R&D Campus, 1 Infinite Loop, Cupertino. A forum for multilingual/multiscript computing. $2; free for IMUG members. Call: Roger Sherman, (415)859-5146. [Exp.#171.]

USER GROUPS continued...

International Software SIG Of the Software Forum. Meetings: 4th Mon., 7:00 pm, Palo Alto. Free to members, $10 for non-members. Contact: Charlie Pfefferkorn, *charliep@crystal-media.com* . [Exp.#173.]

INTERNET

Internet Development SIG Of The Software Forum. Meetings: 4th Tues., 7:00 pm, San Francisco. Free to members, $10 for non-members. Contact: Scott Rozic, *scott@sfsoftware.com* . [Exp.#173.]

Internet SIG. Meetings: 3rd Thurs., 7:00 pm, PG&E Facility, 123 Mission St., San Francisco. Contact: Patrick Lynch, (510)482-5329, or *patl@a.crl.com* . [Exp.#170.]

Internet SIG of the Association of Database Developers (A.D.D.). Meetings: 3rd Tues., 7:00 pm, CyberWorld Cafe, 526 Folsom St., San Francisco. Contact: Patrick Lynch, (510)482-5329, 482-5752 (fax), *patl@a.crl.com* , or URL: *http://www.well.com/user/add/cal.htm* . [Exp.#173.]

Internet SIG Of The Software Forum. Meetings: 2nd Wed., 7:00 pm, Palo Alto. Free to members, $10 for non-members. Contact: Dave McClure, *daveaslan@msn.com* . [Exp.#173.]

LEGAL

SF Bar Assoc. WordPerfect User Group. Meetings: 3rd Wed. odd-numbered months, noon, 465 California St., 11th floor, Boardroom. Chair: Al Buchignani. Call: (415)421-5650. [Exp.#170.]

MACINTOSH

BMUG User Group. Meetings: every Thurs., 6:30 pm, BMUG, 2055 Center St., Berkeley. Q&A, vendor demo and raffle. Free. Contact: (510)549-2684. [Exp.#168.]

BMUG User Group (San Francisco). Meetings: last Mon., 6:30 pm, McBean Theater in the Exploratorium. Q&A, vendor demo and raffle. Free. Contact: (510)549-2684. [Exp.#168.]

MACINTOSH

BMUG User Group (South Bay). Meetings: 3rd Mon., 7:00 pm, Apple Town Hall, Cupertino. Q&A, vendor demo and raffle. Free. Contact: (510)549-2684. [Exp.#168.]

Macintosh Users Group of the Napa Valley. Meetings: 2nd Thurs., 6:30 pm, Bel Aire Plaza on Trancas Ave., Napa. Contact: Jim Gillespie, (707)252-1665, *gillespi@napanet.net/* . [Exp.#168.]

Macs Of Marin. Meetings: last Wed., 8:00 pm, Corte Madera Rec. Center, 498 Tamalpais Dr., Marin. Q&A 8:00, meeting 8:30, members free, non-members $5. Call: Richard, (415)485-5596. [Exp.#169.]

TriValley Macintosh User Group (TMUG). Meetings: 3rd Tues., 7:30 pm, Sonoma School, 543 Sonoma Ave., Livermore. Q&A, DOM, vendor presentations. Book, CD, MacAcademy training libraries. Free to public. Call: Jerry, (510)830-8838. [Exp.#172.]

MISCELLANEOUS

Bay Area Interleaf Users Group (Bayleaf). Meetings: 2nd Weds., odd-numbered months, Location varies; see Web site for details. Contact: Marilyn Salyer, (415)802-2170, *msalyer@interleaf.com* , or URL: *http://www.clearlink.com/bayleaf* . [Exp.#171.]

FileMaker Pro Database Interest Group (DIG.FM). Meetings: 3rd Thurs., 7:00 pm, Claris Corp., 5201 Patrick Henry Dr., Santa Clara. Presentations, demos, and tips by and for passionate users of FileMaker Pro for both Mac and Windows. Not affiliated with Claris. Free. Contact: *info@digfm.org* , or URL: *http://www.digfm.org* . [Exp.#172.]

FoxPro 3rd Party Tools SIG. Meetings: 1st Thurs., 7:00 pm, PG&E Building, 77 Beale St., San Francisco. Contact: Barbara Paltiel, (415)345-0152. [Exp.#170.]

Marketing SIG Of The Software Forum. Meetings: 2nd Mon., 7:00 pm, Palo Alto. Free to members, $10 for non-members. Contact: Stan Trumbull, *strum@bayarea.net* . [Exp.#173.]

MS Access Peninsula User Group. Meetings: 2nd Fri., 1:00 pm, Metro Center Building, 9th floor, Foster City. All welcome from beginners to professionals. Contact: URL: *http://www.rampage.net/accdocs/sigs/htm* . [Exp.#173.]

SF Bay Area Powerbuilder Users Group. Meetings: 3rd Thurs., 1:00 pm. See Web site *(http://www.sfpbug.com)* for meeting location. All welcome. [Exp.#169.]

Society for Technical Communication. Meetings: 3rd Weds., 6:00 pm, London Wine Bar, 415 Sansome St., San Francisco. For technical writers and editors. Newsletter, annual competition. Non-members, $12. Contact: (415)985-7121, URL: *http://stc.org/region8/sfc/www* . [Exp.#173.]

MOBILE

Stanford Newton User Group. Meetings: 2nd and 4th Tues., 7:00 pm, Printer's Inc. Bookstore Cafe, 310 California Ave., Palo Alto. Contact: Flash Sheridan, (415)462-9203, *snug@pobox.com* , or URL: *http://pobox.com/~snug/* . [Exp.#169.]

MULTIMEDIA

Multimedia SIG Of The Software Forum. Meetings: 4th Thurs., 7:00 pm, Cubberly Community Ctr., 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Contact: Mike Schmit, *mschmit@compcore.com* . [Exp.#171.]

OS/2

OS/2 Bay Area User Group. Meetings: 4th Mon., 7:00 pm, Stanford Linear Accelerator Center Auditorium, 2575 Sand Hill Rd., Menlo Park. Free to members, non-members $3. Presentations, demonstrations, technical discussions. Call: (510) 945-7565 ext. 100, or URL: *http://www.davebsoft.com/os2baug* . [Exp.#173.]

PARADOX

Paradox SIG of Diablo Valley PC Users Group. Meetings: 2nd Thurs., 7:30 pm, Beginners and advanced, bring your PDOX problems. Free. Contact: Bill Mero, (510)685-2484, or *kmero@ix.netcom.com* . [Exp.#170.]

PROGRAMMING LANGUAGES

Delphi SIG Of The Software Forum. Meetings: 2nd Weds., 7:00 pm, North Bay. Free to members, $5 for non-members. Contact: Bjarne Winkler, *nts4618086@aol.com* . [Exp.#173.]

Fox-VFP SIG of the Association of Database Developers (A.D.D.). Meetings: 1st Thurs., 7:00 pm, 124 Beale St., mezzanine level, San Francisco. Contact: Dean Lesner, (415)788-4366, *dlesner 123@aol.com* , or URL: *http://www.well.com/user/add/cal.htm* [Exp.#173.]

Java SIG of the Association of Database Developers (A.D.D.). Meetings: 1st Wed., 7:00 pm, 124 Beale St., mezzanine level, San Francisco. Contact: Mark Carranza, *mc2@surf.com* , or URL: *http://www.well.com/user/add/cal.htm* , [Exp.#173.]

Java SIG of the Software Forum. Meetings: 1st Mon., 7:00 pm, Cubberly Community Ctr., 4000 Middlefield Rd., Rm. H-1, Palo Alto. Free to members, $10 for non-members. Contact: Tom Hill, *javasig@worldware.com* . [Exp.#173.]

Visual Basic— San Francisco SIG of the Software Forum. Meetings: 3rd Thurs., 6:30 pm, San Francisco. Free to members, $10 for non-members. Contact: Bill Storage, *storage@nerve-net.com* . [Exp.#173.]

Visual Basic—Silicon Valley SIG of the Software Forum. Meetings: 2nd Thurs., 6:00 pm, Palo Alto. Free to members, $10 for non-members. Call: Allan Colby, *acolby@guidex.com* . [Exp.#173.]

VRML SIG of the Software Forum. Meetings: 3rd Tues., 7:00 pm, Mountain View. Contact: Katherine Bretz, *kbretz@fsc.fujitsu.com* . [Exp.#173.]

TEXAS INSTRUMENTS

TI-99/4A. Meetings: 2nd Sat., Oakland. Need soft-/hardware? Call: Fred, (510)530-8335. [Exp.#169.]

UNIX

UNIX SIG of the Software Forum. Meetings: 2nd Tues., 7:00 pm, Sunnyvale. Free to members, $10 for non-members. Contact: George Bosworth, *georgeb@netcom.com* . [Exp.#173.]

WINDOWS

Bay Area Windows NT User Group. Meetings: 1st Sat., 1:00 pm, MentorNet, 745 Portola Dr., San Francisco. This professional association is for NT systems administrators and developers. Contact: Edwin Rutsch, (510)528-9895, or *edwin@wyp.net* , or URL: *http://www.bantug.org* . [Exp.#169.]

Windows NT Engineering Association of Silicon Valley (NTEA). Meetings: Second Tues., 6:00 pm, Santa Clara County Office of Education building, 1290 Ridder Park Dr., San Jose. Idea exchange, new technology, job opportunities. Meetings will focus on design, set-up, and troubleshooting servers, system administration, and software development issues. No fee for first-time participants. Contact: (408) 437-8803. [Exp.#172.]

Windows SIG Of The Software Forum. Meetings: 1st Weds., 6:30 pm, Palo Alto. Free to members, $20 for non-members. Contact: Fran Finnegan, *fran@fomci.com* . [Exp.#173.]

ASSOCIATIONS

Association For Women In Computing. Meetings: 1st Wed., 6:00 pm, standing room only, Crocker Galleria, 50 Post St., San Francisco. $10 members, $15 guests. Call: (415) 979-8450. [Exp.#171.]

Association of Database Developers (ADD–SF). Barbara Paltiel, (415)345-0152, *barbara@paltielinc.com* , or URL: *http://www.well.com/user/add/cal.htm* . [Exp.#173.]

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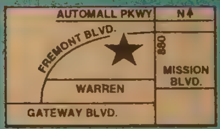

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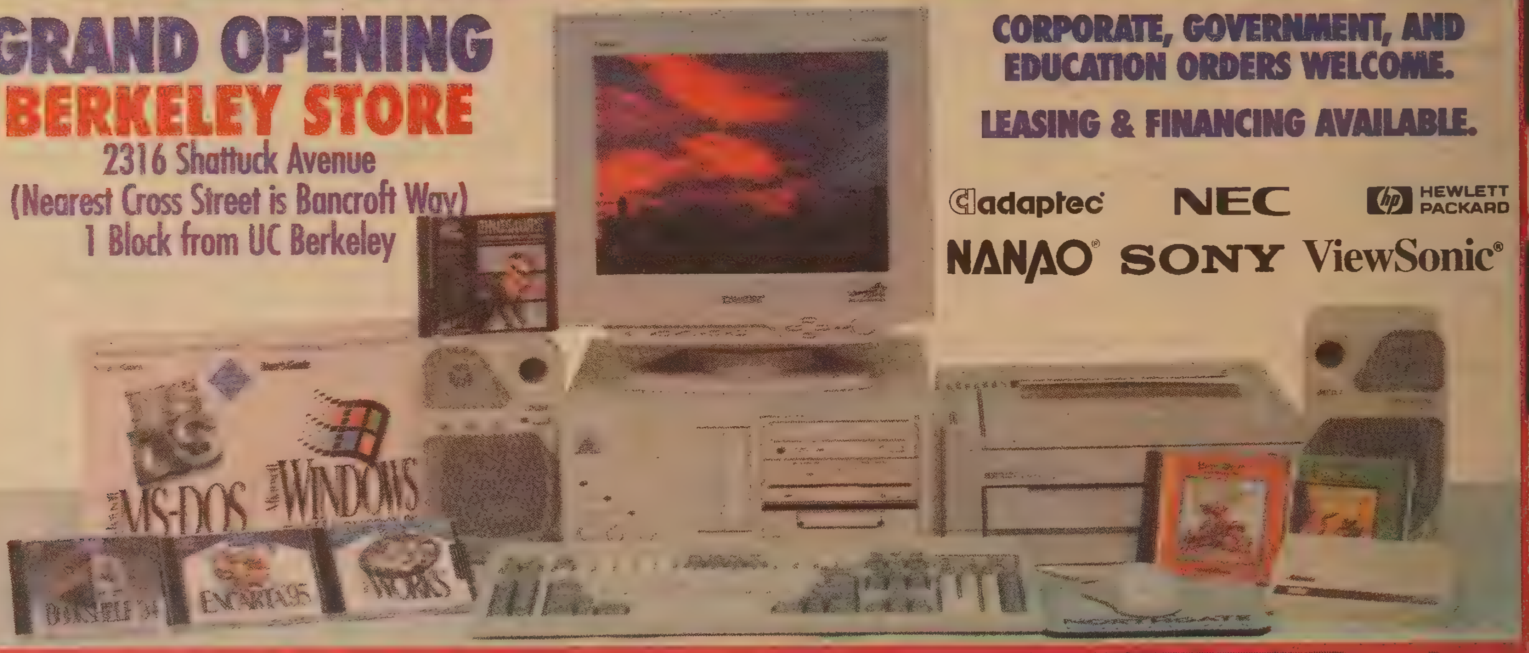

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- Free Microsoft Windows 95
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intel inside

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Pentium II-233 (Intel Portland) ATX	1848
Pentium II-266 (Asus or Super Micro)	1998
Pentium II-233 (Asus or Super Micro)	1838
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PP-200 (Intel Venus) ATX	1638
PP-180 (Intel Venus) ATX	1478
MMX-P233/512K (Intel Tucson) ATX	1578
MMX-P200/512K (Intel Tucson) ATX	1458
MMX-P166/512K (Intel Tucson) ATX	1348
MMX-P233/256K (Super Micro)	1498
MMX-P200/256K (Super Micro)	1368
MMX-P166/256K (Super Micro)	1258
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- Monitor Sold Separately (see page 3)

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Pentium II-266 (Asus or Super Micro)	1738
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MMX-P200/512K (Intel Tucson) ATX	1188
MMX-P166/512K (Intel Tucson) ATX	1078
P5-200/256K (Intel Marl) ATX	1088
P5-166/256K (Intel Marl) ATX	1028
MMX-P233/512K (Super Micro)	1228
MMX-P200/512K (Super Micro)	1108
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- Free Mouse with Pad
- Free Microsoft Windows 95
- **Free CD Deluxe Pack**
- Monitor Sold Separately (see page 3)

Internet Ready!

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MMX-P200/256K (SUPER MICRO M/B)	128	376	506	536	586	686	736	776	836	996
MMX-P166/256K (SUPER MICRO M/B)	128	266	396	426	476	576	626	666	726	886
AMD K6-233/256K (SUPER MICRO M/B)	128	426	556	586	636	736	786	826	886	1046
AMD K6-200/256K (SUPER MICRO M/B)	128	326	456	486	536	636	686	726	786	946
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AMD K6-P200/512K (INTEL TRITON TX)	94	286	416	446	496	596	646	686	746	906
AMD K6-P166/512K (INTEL TRITON TX)	94	226	356	386	436	536	586	626	686	846
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P5-166C (INTEL TRITON VX)	62	206	336	366	416	516	566	606	666	826
P5-150C (INTEL TRITON VX)	62	166	296	326	376	476	526	566	626	786
6X86-P200+/512K (INTEL TRITON TX)	94	166	296	326	376	476	526	566	626	786
6X86-P166+ (INTEL TRITON VX)	62	126	256	286	336	436	486	526	586	746
AMD K5-166C (INTEL TRITON VX)	62	156	286	316	366	466	516	556	616	776
AMD K5-133C (INTEL TRITON VX)	62	136	266	296	346	446	496	536	596	756
AMD K5-75C (INTEL TRITON VX)	62	96	226	256	306	406	456	496	556	716
486DX4-100C VLB-PCI	54	96	226	256	306	406	456	496	556	716

UMAX SUPERMAC

S900/233..............................$2,788
233 MHZ
32MB RAM
8X SCSI CD ROM
7 BAYS (4 OPEN)
2.1 GB SCSI HD

C600/240..............................$1,488
240 MHZ
24MB RAM
8X SCSI CD ROM
7 BAYS (4 OPEN) MINI-TOWER
2.1 GB IDE HD

C500/180..............................$1,088
180 MHZ
16MB RAM
8X SCSI CD ROM
3 BAYS SLIM DT
1.2 GB IDE HD

HI-TECH DREAM SYSTEMS
(BUSINESS LEASE AVAILABLE)

- **8MB RAM** (16MB/32MB: Add $40/$90)
- **1.2GB EIDE** (2.0GB/4.3GB: Add $30/$80)
- **Diamond Stealth with 1MB**
- **33.6 Internal Fax Modem w/Voice**
- TEAC 1.44MB 3.5" Floppy Drive
- Mitsumi Keyboard for Windows 95
- Enhanced Case w/Power Supply
- Free Mouse and Microsoft Windows 95
- Monitor Sold Separately (please see next page)

Internet Ready!

MMX-P233/256K (Super Micro)	$948
MMX-P200/256K (Super Micro)	818
MMX-P166/256K (Super Micro)	708
MMX-P233/512K (Intel Triton TX)	908
MMX-P200/512K (Intel Triton TX)	788
MMX-P166/512K (Intel Triton TX)	678
AMD K6-233/512K (Intel Triton TX)	828
AMD K6-200/512K (Intel Triton TX)	738
P5-200/256K (Intel Triton VX)	728
P5-166/256K (Intel Triton VX)	648
P5-150/256K (Intel Triton VX)	618
6X86-P200+/512K (Intel Triton TX)	608
6X86-P166+/256K (Intel Triton VX)	578
AMD K5-P166/256K (Intel Triton VX)	608
AMD K5-P133/256K (Intel Triton VX)	598
AMD K5-P75/256K (Intel Triton VX)	548

See Next Page for All of Our Upgrade Prices

HI-TECH SUPER SYSTEMS
(BUSINESS LEASE AVAILABLE)

- **16MB EDO RAM** (32MB/64MB: Add $60/$170)
- **2.0GB EIDE** (4.3GB: Add $60)
- **Diamond Stealth w/2MB**
- **56.6 Int. Fax Modem w/Voice (Internet Ready)**
- TEAC 1.44MB 3.5" Floppy Drive
- Mitsumi Keyboard for Windows 95
- Medium Tower Case w/Power Supply
- Free Microsoft Windows 95 and Mouse
- Monitor Sold Separately (please see next page)

Pentium II-266 (Intel Portland) ATX	$1588
Pentium II-233 (Intel Portland) ATX	1428
Pentium II-266 (Asus or Super Micro)	1578
Pentium II-233 (Asus or Super Micro)	1418
MMX-P233/256K (Super Micro)	1058
MMX-P200/256K (Super Micro)	938
MMX-P166/256K (Super Micro)	828
P5-200/256K (Super Micro)	898
P5-166/256K (Super Micro)	838
P5-150/256K (Super Micro)	788
MMX-P233/512K (Intel Triton TX)	1028
MMX-P200/512K (Intel Triton TX)	908
MMX-P166/512K (Intel Triton TX)	798
P5-200/512K (Intel Triton TX)	868
P5-166/512K (Intel Triton TX)	798
P5-150/512K (Intel Triton TX)	748

See Next Page for All of Our Upgrade Prices

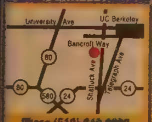
HI-TECH POWER SYSTEMS
(BUSINESS LEASE AVAILABLE)

- **32MB EDO RAM** (64MB: Add $110)
- **4.3GB EIDE Hard Drive** (6.4GB: Add $130)
- **Matrox Mystique PCI w/4MB SGRAM**
- **US Robotics 56.6 Fax Modem (Internet Ready)**
- TEAC 1.44MB 3.5" Floppy Drive
- Keytronics Keyboard for Windows 95
- Medium Tower Case or w/Power Supply
- Free Microsoft Windows 95 and Mouse
- Monitor Sold Separately (please see next page)

Pentium II-266 (Intel Portland) ATX	$1818
Pentium II-233 (Intel Portland) ATX	1658
Pentium II-266 (Asus or Super Micro)	1808
Pentium II-233 (Asus or Super Micro)	1648
Dual PP-200 (Super Micro) w/1CPU	1568
Dual PP-180 (Super Micro) w/1CPU	1338
PP-200 (Super Micro)	1498
PP-180 (Super Micro)	1338
PP-200 (Intel Venus) ATX	1438
PP-180 (Intel Venus) ATX	1258
MMX-P233/256K (Super Micro)	1288
MMX-P200/256K (Super Micro)	1158
MMX-P166/256K (Super Micro)	1058
P5-200/256K (Intel Marl) ATX	1148
P5-166/256K (Intel Marl) ATX	1068
P5-150/256K (Intel Marl) ATX	1028

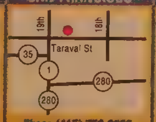
See Next Page for All of Our Upgrade Prices

BERKELEY



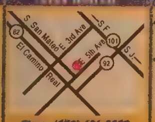
Phone (510) 843-8888
2318 Shattuck Avenue, Berkeley
Fax (510) 843-8868

SAN FRANCISCO



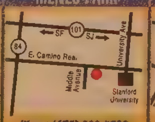
Phone (415) 753-8888
858 Taraval Street, San Francisco
Fax (415) 753-8848

SAN MATEO



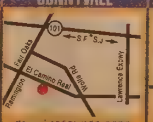
Phone (650) 401-8888
111 E. 5th Avenue, San Mateo
Fax (650) [illegible]

MENLO PARK



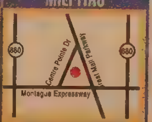
Phone (650) 328-8888
441 El Camino Real, Menlo Park
Fax (650) 328-8880

SUNNYVALE



Phone (408) 732-8888
730 East El Camino Real, Sunnyvale
Fax (408) 732-2388

MILPITAS



Phone (408) 262-8888
1558 & 1592 Centre Pointe Dr., Milpitas
Fax (408) 262-9772

SALES HOURS: Mon-Fri: 8:30am-6pm, (9:30am-7pm Sunnyvale), Sat: 10am-4pm
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1. One year parts and labor warranty on systems.
2. Knowledgeable technical support engineers in service.
3. Prices and availability subject to change w/o notice.
4. Shipping, insurance and COD charges are extra and non-refundable. Prices reflect cash discounts.
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6. Defective items replaced or repaired at our discretion.
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8. All returns subject to 15% restocking fee and cover only Hi-Tech USA brand computers, excludes peripherals, software and notebook computers. No refunds after 30 days.
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CASE W/POWER SUPPLY

230W / 250W / 300W Power Supply	$20 / 24 / 32
Mini Tower Case w/200W Power Supply	23
Desktop AT Case w/200W Power Supply	33
Medium Tower Case w/230W Power Supply	35
Full Tower Case w/250W Power Supply	50
ATX Case w/Power Supply (Tower / AT)	63 / 86

CONTROLLERS

IDE 2FD/2HD with 2S/1P/1G	$10
VLB EIDE I/O with 16550	15

adaptec

1520 / 1542 CP (SCSI)	$65 / 158
2842 VLB (SCSI)	88
2940U PCI (SCSI)	163
2940UW PCI (SCSI)	186

DATA TECHNOLOGY CORPORATION

DTC 2280E ISA with 16550 UART Chip	$19

PROMISE TECHNOLOGY, INC.

Promise DC-2300 Plus VLB IDE Fast I/O	$41
Promise DC-4030 VLB IDE Cache Controller	48
Promise DC-4030+ VLB EIDE	106

HARD / FLOPPY DRIVES

Quantum™ Maxtor® Seagate
WESTERN DIGITAL

IDE 1.0GB / 1.2GB / 1.6GB	$129 / 136 / 156
IDE 2.0GB / 2.5GB	158 / 180
IDE 4.3GB / 6.4GB	210 / 338
SCSI 1.0GB / 1.2GB / 2.0GB	178 / 194 / 208
SCSI 4.0GB / 9.0GB	438 / 1148
FUJITSU IDE 1.2GB / 1.7GB	149 / 158
FUJITSU IDE 2.0 GB / 2.5GB	168 / 192
JTS IDE 1.0GB / 1.2GB / 1.7GB	129 / 136 / 156
JTS IDE 2.0GB / 2.5GB / 3.0GB	158/180/194
MAXTOR IDE 1.2GB/2.0GB/4.3GB	154/166/248
QUANTUM	
IDE 1.0GG / 2.0GB	132/ 176
IDE 2.5GB Big Foot / 3.5"	178 / 198
IDE 4.3GB Big Foot / 3.5"	210 / 308
IDE 3.1GB / 3.8GB / 6.4GB	208 / 268 / 338
SCSI 1.0GB / 1.2GB	178 / 194
SCSI 2.0GB / 4.0GB	208 / 438
SAMSUNG	
IDE 2.0GB	162
SEAGATE	
IDE 1.2GB/ 1.6GB / 2.0GB	147 / 166 / 170
WESTERN DIGITAL	
IDE 1.0GB / 1.6GB	150 / 162
IDE 2.0GB / 2.5GB	176 / 194
IDE 3.1GB / 4.0GB	218 / 278
FLOPPY DRIVES	
Mitsumi / Teac 1.44 Floppy Drive	$18 / 20

MOUSE

3-Button Mouse Microsoft Compatible	$5

LOGITECH

First Mouse (Serial-2 Button)	9
Mouseman Serial / PS2 (OEM)	16 / 18

Microsoft

Microsoft Mouse Serial (w/System)	$19
Microsoft Mouse PS2 (w/System)	20

KEYBOARDS

104-Key Keyboard for Windows 95	$11
FOCUS	
FK2001 for Windows '95	22
FK6200W/7200W	18 / 23
FK8200 / 9200	34 / 39
Keytronics 104-Key for Windows 95	15
Lite-on SK-6000 / SK-6000T	35 / 52
Mitsumi 104-Key for Windows 95	11
Maxiswitch Nova for Windows 95	15
Maxiswitch Nova PS/2	16
Microsoft Natural Key (w/System)	42
Northgate OMNI 102 or Ultra	34

MEMORY & CPUS

SIMM	
1MB (1x3) (30 Pin)	6
4MB (4x3) (30 Pin)	16
4MB (1x32) (72-Pin)	16
8MB (2x32) (72-Pin)	29
16MB (4x32) 72-Pin)	54
32MB (8x32) (72-Pin)	108
4MB (1x32) (EDO)	16
8MB (2x32) (EDO)	29
16MB (4x32) (EDO)	54
32MB (8x32) (EDO)	108
CPU	
AMD 5X86-133 / K5-75	68 / 34
AMD K5-P100 / 133 / 166	56 / 74 / 94
AMD K6-166 / 200 / 233	138 / 204 / 304
6X86 P-166+ / P-200+	64 / 78
Intel P5-120 / 133	95 / 100
Intel P5-150 /166 / 200	104 / 148 / 199
Intel Pentium Pro-150 / Pro-180	178 / 318
Intel Pentium Pro-200	478
Intel MMX-166 / 200 / 233	148 / 258 / 388
Intel Pentium II-233 / 266	549 / 699

MODEMS & FAXES

Fax Modem 14,400 Internal / External	$25 / 28
Fax Modem 14,000 Internal w/Voice	28
Fax Modem 96/24 Internal	14
Fax Modem 33.6 with V.34 Int	44
Fax Modem 33.6 with Voice Int	46
Fax Modem 33.6 with Voice Ext	67
Fax Modem 56.6 with Voice Int	94
PCMCIA Fax Modem 28.8 Data w/V.34	58
PCMCIA Fax Modem 33.6 Data w/V.34	88
SUPRA 33.6 Fax Modem Int (Bulk)	48
SUPRA 33.6 Fax Modem w/Voice Int (Retail)	88
SUPRA 56.6 Fax Modem w/Voice Int	104
US ROBOTICS	
Sportster 14,400 FM Int (Classic)	$34
Sportster 28.8 Winmodem (Bulk)	44
Sportster 33.6 Data Winmodem Int (Bulk)	68
Sportster 33.6 Data Winmodem Int (Retail)	82
Sportster 28.8 FM with Voice Int	68
Sportster 28.8 FM with Voice Ext	98
Sportster 33.6 Data Fax Modem Int (Bulk)	79
Sportster 33.6 Data Fax Modem (Retail)	116
Sportster 33.6 Data Fax modem w/Voice Int (Bulk)	92
Sportster 33.6 Data Fax Modem w/Voice Int (Retail)	134
Sportster 33.6 Data Fax Modem w/V.34 Ext (Retail)	139
Sportster 33.6 Data Fax Modem w/Voice Ext	155
Sportster 56.6 Internal (Bulk)	142
Sportser 56.6 Internal (Retail)	159
Sportster 56.6 External (Retail)	176

MONITORS*

14" Mono / VGA Mono	$78 / 88
14" SGA 1024•768 .28 NI	143
15" SVGA 1024•768 .28	195
17" SVGA 1280•1024 .28	386

CTX

14" Super VGA 1024•768 .28 NI	$184
15" Super VGA 1024•768 .28	253
17" Super VGA 1280•1024 .28	453

IIYama (IDEK)

MF-8515 15" 1280•1024 .28	$308
MF-8617E 17" 1600•1200 .26	548
MF-8221E 21" 1600•1200 .30	1268

Impression

14" 1024•768 .28 NI	$150
15" 1280•1024 .28 NI	223
17" 1280•1024 .28 NI	413

MAG INNOVISION

510V 15" 1280•1024 .28	$262
DX15T 15" .25 Trinitron OSD Win 95	324
710V^2 17" 1280•1024 .28	446
DJ702 17" .26 1280•1024	518
DX700T 17" .25 Trinitron OSD Win 95	588

NANAO®

FX-B5 15" .28 / FX-C5 17" .28	488 / 684
FX-C6 17" .26 / TX-C7S 17" .25	768 / 948
T2-17 .25	847
TX-D7S 20" .25 / FX-E7 21" .28	1604 / 1598

NEC

XV 15+ / M500	$348 / 366
M700 / XV 17+ / P750	718 / 628 / 828
E1100 / P1150 21" .28	1358 / 1518

NOKIA

449XA 15" / 447L 17"	$376 / 586
447XAV 17" / 447K 17"	928 / 1338
445XI 21"	1688

SONY

100SX 15"	$323
100SF 15"	364
200SX 17" 1280•1024 .25 65 Hz	614
200SF 17" 1280•1024 .25 75 Hz	708
300SFT 20" 1600•1024 .31	1368
20SE2T 20" .25	1738

ViewSonic®

E641 14" 1024•768 .28	$204
E655 15" 1024•768 .28	268
15GS 15" 1280•1024 .28	316
15GA 15" 1280•1024 .27 w/Speakers	348
17EA 17" 1280•1024 .28 w/Speakers	514
G771 17" 1280•1024 .28	507
17GA 17" 1280•1024 .27 w/Speakers	556
17PS 17" 1600•1280 .25 Green	627
GT770 17" 1280•1024 .25	614
PT770 17" 1600•1280 .25	647
PT775 17" 1600•1280 .25	727
G800 20" 1600•1280 .28	967
G810 21" 1600•1280 .25	1217
PT 813 21" 1600•1280 .28	1417
P815 21" 1800•1440 .25	1457
VP140	2288

*** Monitor Viewable size may be smaller than advertised size**

NETWORKS

16 BIT Ethernet Card ISA (Combo)	$14
32 BIT PCI Ethernet Card (Combo)	17
32 BIT PCI 10/100 TX	50
PCMCIA Ethernet Card (Combo)	62

3Com

3C509 ELINK III TP	$46
3C509 ELINK III Combo	66
3C590 PCI Combo	69
3C900 PCI TP (New)	66
3C900 PCI Combo (New)	81
3C905 TX PCI 10 / 100	61

Hubs and Repeaters

5-Port Ethernet Hub	$38
8-Port Ethernet Hub	47
16-Port Ethernet Hub	94
24-Port Ethernet Hub	224

Intel

EtherExpress Pro 10 / 100 TX PCI	$53

SCANNERS

Adara Scan 016 Image Star I	$204
Adara Scan 018 Image Star III w/o TMA	848
Visioneer PK-33001-W PPVX 3.5	178

SOFTWARE

Microsoft Super Home Bundle (w/system)	$68
Microsoft Windows 95 Full Copy CD Version (w/system)	88
Microsoft Windows 95+ (with System)	118
Microsoft DOS 6.x (with System)	38
Microsoft Office Professional OEM CD Version (w/System)	178
Microsoft Windows 3.x (with System)	56
Microsoft Windows for Workgroup (with System)	62
Microsoft Windows NT 4.0 Server	
5 Clients (with/System)	438
10 Clients (with/System)	598
Microsoft Windows NT 4.0 Workstation (with Sys)	144

TAPE BACKUPS

Teac 800MB w/Tape	$50

COLORADO MEMORY SYSTEMS

T-3000T 3.2GB Int. w/tape	166
T-4000T 8.0GB SCSI Int w/tape	334
Tape for 800MB	27
IOMEGA	
Ditto Easy 800 Insider	96
Ditto Easy 800 Parallel	122
Ditto Easy 3200 Insider w/Cartridge	178
Ditto 800/3200 Cartridge	30 / 35
Jaz SCSI Drive 1.0GB Insider	344
Jaz SCSI Drive 1.0GB External	428
Jaz SCSI Drive Cartridge	94
Zip Drive 100MB External Parallel	132
Zip Drive 100MB External SCSI	132
Zip Drive 100MB Cartridge	15

VGA CARDS

MGP Card	$10
VGA 512K	20
SVGA ISA w/1MB	25
Cirrus Logic PCI w/1MB	19
Cirrus Logic PCI w/MPEG 1MB	23
Trident PCI w/1MB	19
Trident PCI w/1MB MPEG	20

ATI TECHNOLOGIES INC.

VideoBoost PCI 1MB DRAM w/MPEG	$44
VideoBoost PCI 2MB DRAM w/MPEG	49
3D Xpression 2MB EDO	53
3D Xpression+ w/o TV 2MB	64
3D Xpression+ w/o TV 4MB	82
3D Xpression+ w/ TV 2MB	76
3D Xpression+ w/ TV 4MB	94
ProTurbo w/TV 4MB SGRAM	123
ProTurbo w/TV 8MB SGRAM	163
TV Tuner	108

DIAMOND

Stealth 2500 with MPEG 1MB	26
Stealth 2500 with MPEG 2MB	32
Stealth 64 PCI 1MB w/MPEG	38
Stealth 64 PCI 2MB w/MPEG	46
Stealth 64 Video PCI 2MB (VRAM)	78
Stealth 64 Video PCI 4MB (VRAM)	124
Stealth 3D 2000 PCI 2MB	48
Stealth 3D 2000 PCI 4MB	72
Stealth 3D 3000 PCI 2MB (VRAM)	98
Stealth 3D 3000 PCI 4MB (VRAM)	128
Fire GL1000 4MB (Bulk)	158
Fire GL1000 4MB (Retail)	258
Fire GL1000 8MB (Bulk)	178
Fire GL1000 8MB (Retail)	344

MATROX

Millennium 2MB (Bulk)	128
Millennium 4MB (Bulk)	163
Millennium 2MB (Retail)	154
Millennium 4MB (Retail)	182
Millennium II 4MB (Bulk)	208
Millennium II 4MB (Retail)	238
Millennium II 8MB (Bulk)	288
Millennium II 8MB (Retail)	318
Mystique 2MB (Bulk)	88
Mystique 4MB (Bulk)	111
Mystique 2MB (Retail)	108
Mystique 4MB (Retail)	130
Mystique 220 2MB (Bulk)	118
Mystique 220 2MB (Retail)	134
Mystique 220 4MB (Bulk)	144
Mystique 220 4MB (Retail)	162

Number 9

Imagine 128 S2E PCI 4MB	254
Imagine 128 Series 2 PCI 4MB	388

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MOTHERBOARD W/CPU

486DX4-100/256K PCI-VLB	$106
AMD K5-P75/256K (Triton VX)	106
AMD K5-P100/256K (Triton VX)	126
AMD K5-P133/256K (Triton VX)	146
AMD K5-P166/256K (Triton VX)	166
6X86-P166+/256K (Triton VX)	136
6X86-P200+/512K (Triton TX)	166
P5-150/256K (Triton VX)	176
P5-166/256K (Triton VX)	216
P5-200/256K (Triton VX)	276
AMD K6-166/512K (Triton TX)	226
AMD K6-200/512K (Triton TX)	286
AMD K6-233/512K (Triton TX)	386
MMX-P166/512K (Triton TX)	236
MMX-P200/512K (Triton TX)	346
MMX-P233/512K (Triton TX)	466
ASUS	
P5-150/512K (VX97)	196
P5-166/512K (VX97)	236
P5-200/512K (VX97)	296
MMX-P166/512K (TX97)	276
MMX-P200/512K (TX97)	386
MMX-P233/512K (TX97)	506
Pentium Pro PP-180 (Natoma)	536
Pentium Pro PP-200 (Natoma)	716
Pentium II-233	796
Penitum II-266	956
INTEL	
P5-150/256K (MARL) ATX	206
P5-166/256K (MARL) ATX	246
P5-200/256K (MARL) ATX	306
P5-150/256K (TUCSON) ATX	276
P5-166/256K (TUCSON) ATX	316
P5-200/256K (TUCSON) ATX	376
MMX-P166/512K (TUCSON) ATX	316
MMX-P200/512K (TUCSON) ATX	426
MMX-P233/512K (TUCSON) ATX	546
Pentium Pro PP-180 (VENUS) ATX	426
Pentium Pro PP-200 (VENUS) ATX	606
Pentium II-233 (PORTLAND) ATX	796
Pentium II-266 (PORTLAND) ATX	956
Super Micro	
Pentium Pro PP-180	536
Pentium Pro PP-200	716
DUAL Pentium Pro PP-180 w/1 CPU	576
DUAL Pentium Pro PP-200 w/1 CPU	756
Pentium II-233	796
Pentium II-266	956

MULTIMEDIA

16-Bit Sound Card	$15
Altec Lansing ACS 51 / ACS 52	54 / 70
Altec Lansing ACS 53 / ACS 500	118 / 288
CD Writer Phillips CDD2600/12 Int	418
CD Writer Phillips CDD2600/20 Ext	548
CD Writer Yamaha CDR-400ti SCSI Int	648
CD Writer Yamaha CDR-400ti IDE Int	748
Creative Sound Blaster 16 / 32 PNP	39 / 67
Creative Sound Blaster AWE 64 Value (Bulk)	78
Creative Sound Blaster AWE 64 (Bulk/Retail)	78 / 146
Creative Sound Blaster AWE 64 Gold (Bulk)	142
Creative Sound Blaster AWE 64 Gold (Retail)	172
Digital Camera Sony DSC-F1	778
Digital Camera Specom Visioncam w/o software	158
CD-ROM 12X / 16X IDE	57 / 61
CD-ROM 20X / 24X IDE	70 / 90
Mitsumi 6X 6-Speed IDE	49
Mitsumi 8X 8-Speed IDE	58
Mitsumi 12X 12-Speed IDE	70
Mitsumi 16X 16-Speed IDE	75
NEC 6-Speed SCSI	94
NEC 16-Speed SCSI	114
Panasonic 24X 24-Speed IDE	89
Panasonic 8X 8-Speed SCSI	84
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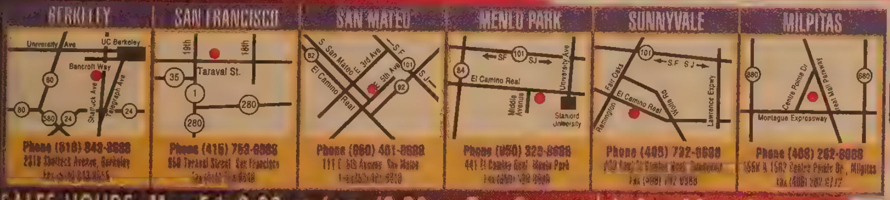

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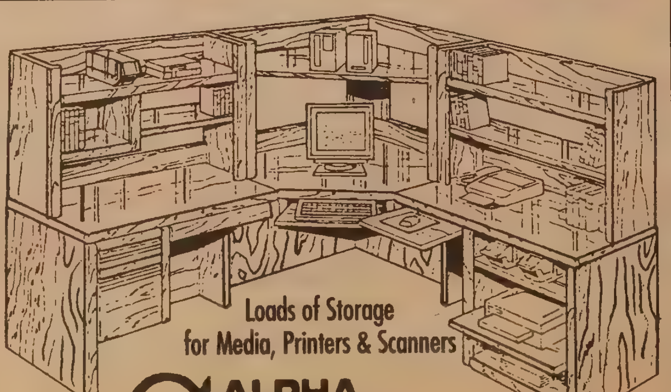

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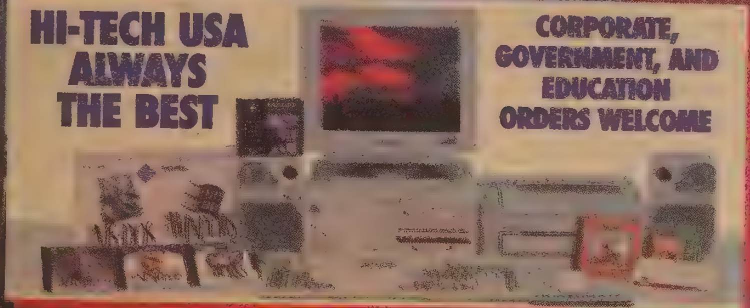

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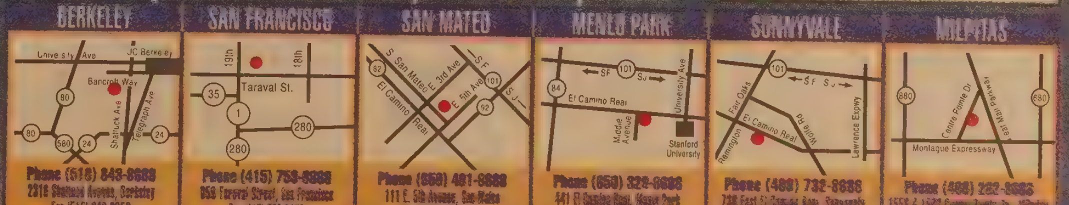

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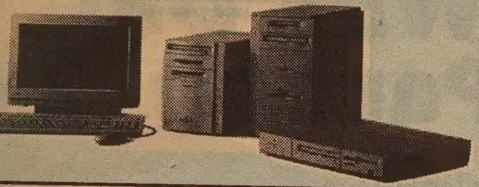

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If It Was A Dream, Why Did It Seem So Real? (Part II)

Or, The Insiders Club Plot Thickens

As our current chapter begins, the Insiders Club had plotted to put nails in Bill Gates' tires, to no avail. Gates had discovered their scheme and beat them to it. He also bought a dirty tricks company and had Rupert pie'd in front of group of investors. The following meeting took place a month later.

To review: The Insiders are a group of successful businessmen out to stop Bill Gates from making a trillion dollars.

* * * * *

CAST (returning from last episode):

Larry Somerson—Head of Antilles Software, a company that sells the Antilles Database to large corporations. Through no fault of his own he became worth $10 billion and now believes he should be the world's richest man. Prides himself in his good taste.

Scott McNab—Head of Moon Microsystems, a company that makes servers and promotes an odd programming language called Tealeaf. Scott sincerely believes he is the world's greatest CEO and doesn't understand why "Bill" gets all the attention. He loves to go into rants berating the competition and Bill in particular.

Steve Workman—Gadfly now, but once the former head of Bulb Computing. Brought back to Bulb after a series of management blunders resulted in near bankruptcy. His only job, though, was to get a lot of stock to cash in and to say, "I told you so, dummies!"

John Doorman—The hottest venture capitalist in the world. Blond, excitable, constantly getting in front of the mirror with Scott McNab, his pal, and arguing over which one of them has bigger teeth.

Rupert Dockers—A huge media mogul scared to death that Bill, whom he hates, will buy up everything the old-fashioned way and muck up his personal empire. Likes to sleep during the meetings, only to wake up to throw a pencil at a speaker and yell, "That's crap!"

* * * * *

The scene: a board meeting of the Insiders Club. The five aforementioned insiders are in attendance.

Larry: The meeting will come to order.

Scott: That bastard put nails in the Firestones on my BMW.

Larry: We all got hit. It was weird—as if he was in the meeting. I suspect foul play.

John: Firestones? Why not Goodyear?

Scott: Maybe they are Goodyear. To be honest I don't know. Bridgestone maybe.

John: If you need a good deal on tires we're funding a new high-tech tire distribution and manufacturing company. The tires have embedded chips in the lining that give detailed information to the car's computer.

Steve: And so what's the point of that?

John: You can tell if a tire needs air. Low air in tires is responsible for poor performance and low fuel economy. We can save ten billion barrels of fuel with this technology per year!

Steve: Horse manure. Who are you kidding?

Rupert: Gentlemen! We're bickering over tires, when at least one of us has had a pie thrown in our face—me! And the nails in the tires were not appreciated. So who told Bill about our scheme? I'm in agreement with Larry. Something is amiss. Somebody told Bill about our plan and he executed it before we could.

Steve: The guy copies everything. No originality.

Larry: That may be true, but how did he find out in the first place? I suspect Steve of telling him. They're roughly the same age.

Steve: You idiot. Why would I tell him anything? The odd man out here is Rupert. He's not one of the group and he'd jump in bed with Bill in a heartbeat.

[*a pencil bounces off of Steve's head, thrown by Rupert.*]

Rupert: I think not! Why would I get the pie?

Steve: To make you look less like a suspect.

Scott: Maybe the room is bugged.

[*All the men look at each other, then drop to the floor and crawl around looking for a microphone. Within seconds Scott stands up, holding a small microphone with an antenna attached.*]

Scott: I found it!

Rupert: You idiot. Now he'll know! We could have misled him. Give it to me.

[*Rupert takes a huge hammer out of his breast pocket and slams it into the microphone, putting a large dent in the boardroom's table.*]

Rupert: There. Done with!

John: I'll have the room and facilities swept for more bugs. We've invested in a new high-tech start-up that specializes in this sort of thing. I think.

[*Scene changes to Redmond, where Bill was listening to the meeting.*]

Bill: Drat!

[*He pushes a button on his desk opening up a wall with about fifty monitors.*]

Bill: Madge! Have Barrington activate the phone monitoring system. Bring Micro-SAT 15 into position to pick up the relay from the microwave. Tell Barrington we have to open their cell phones remotely to pick up what they're saying. He'll know what I'm talking about. Priority ONE!

[*Back to Palo Alto.*]

Scott: If he's bugged this room, we can assume that as we speak he's going to Plan B. We have a few minutes to talk freely.

Rupert: Scott is right. We must make our move now. Ideas?

Steve: I say do nothing. Absolutely nothing.

Scott: That's what we've been doing.

Steve: No, seriously. Let's all act glib, as if we've hatched some unbelievable plan. He'll be listening in and think he missed something. He'll freak.

Rupert: Brilliant!

[*Just then there's a simultaneous click of five cell phones. The room falls silent for a split second.*]

Steve: Uh, so it's settled then. The plan will go into effect, mmmm, on *that* date!

Scott: Yes. Um. That's the day!

Rupert: He won't know what hit him.

[*Back in Redmond.*]

Bill: Damn. Can't take a chance on this one. Barrington...set off the nuclear charge in Palo Alto that we put into the "time capsule" at Stanford. *That* should end this feud!!

Nobody likes to see needless destruction of human life, and it's not like anyone didn't care. But did anyone check to see where the "AXE" was before this happened?? Concerned Cal Bears need to know! ■

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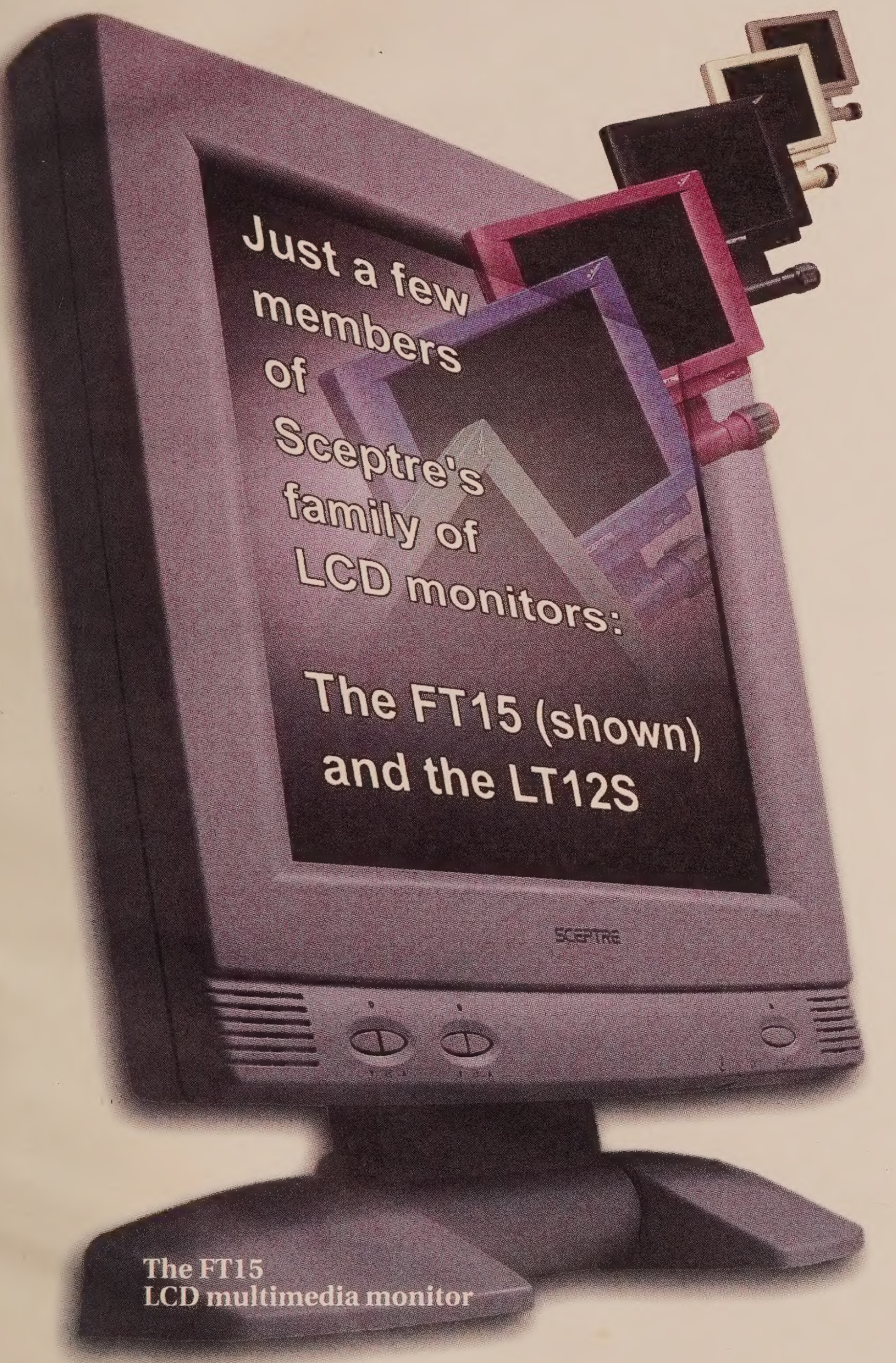
Been There, Done That!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